<110> INCYTE CORPORATION; HAFALIA, April J.A.
LEE, Soo Yeun; MURAGE, Jaji;
SWARNAKAR, Anita; CHAWLA, Narinder K.;
KHARE, Reena; ELLIOTT, Vicki S.;
TRAN, Uyen K.; RAMKUMAR, Jayalaxmi;
GURURAJAN, Rajagopal; BAUGHN, Mariah R.;
GIETZEN, Kimberly J.; YANG, Yonghong G.;
CHIEN, David; WANG, Jonathan T.;
FAVERO, Kristin; BECHA, Shanya D.;
RICHARDSON, Thomas W.; JIN, Pei;
HAWKINS, Phillip R.; YUE, Henry;
LEE, Ernestine A.; MARQUIS, Joseph P.

<120> KINASES AND PHOSPHATASES

<130> PF-1617 PCT

<140> To Be Assigned
<141> Herewith

<150> US 60/423,226
<151> 2002-11-01

<150> US 60/426,713
<151> 2002-11-15

<150> US 60/429,766
<151> 2002-11-26

<150> US 60/447,043
<151> 2003-02-11

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<220>
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Ala	Leu	Arg	Ala	Ala	Gln	Leu	Asp	Cys	Val	Asn	Glu	Ala	Glu	Ser	
				20				25						30	
Lys	Pro	Thr	Ala	Gly	Leu	Lys	Glu	Val	Ser	Ile	Ser	His	Pro	Ser	
				35				40						45	
Ser	Ala	Ser	Asp	Asn	Gln	Ile	Ala	Leu	Ala	Ala	Ser	Ser	Ser	Gln	
				50				55						60	
Asp	Glu	Leu	Phe	Val	Ala	Arg	Ile	Leu	Gln	Ser	Pro	Asp	Pro	Gly	
				65				70						75	
Gly	Pro	Arg	Asn	Gly	Thr	Ser	Asp	His	Leu	Glu	Thr	Asp	Gln	Arg	
				80				85						90	
Gln	Asp	Pro	Thr	Pro	Leu	Glu	Glu	Asn	Lys	Ser	Lys	Leu	Gln	Asp	
				95				100						105	
Val	Ile	Pro	Gln	Pro	Leu	Leu	Asp	Gln	Tyr	Val	Ser	Met	Thr	Asp	
				110				115						120	
Pro	Ala	Arg	Ala	Gln	Thr	Val	Asp	Thr	Asp	Ile	Ala	Lys	His	Cys	
				125				130						135	

```
Ala Tyr Ser Leu Pro Gly Val Ala Leu Thr Leu Gly Arg Gln Asn
                140                 145                 150
Trp His Cys Leu Lys Asp Thr Tyr Glu Thr Leu Ala Ser Asp Val
                155                 160                 165
Gln Trp Lys Val Arg Arg Ala Leu Ala Phe Ser Ile His Glu Leu
                170                 175                 180
Ala Val Ile Leu Gly Asp Gln Leu Thr Ala Ala Asp Leu Val Pro
                185                 190                 195
Ile Phe Asn Gly Phe Leu Lys Asp Leu Asp Glu Val Arg Ile Gly
                200                 205                 210
Val Leu Arg His Leu Tyr Asp Phe Leu Lys Thr Ala Asp Thr Asp
                215                 220                 225
Ser Gly Thr Leu
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<210> 2
<211> 314
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 7520259CD1

<400> 2

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Met Gln Lys Tyr Glu Lys Leu Glu Lys Ile Gly Glu Gly Gly Ile
  1                 5                  10                  15
Ser Trp Leu Arg Glu Glu Cys Arg Ile Leu Thr Leu Thr Pro Asp
                 20                  25                  30
Leu Leu Pro Leu Gly Thr Tyr Gly Thr Val Phe Lys Ala Lys Asn
                 35                  40                  45
Arg Glu Thr His Glu Ile Val Ala Leu Lys Arg Val Arg Leu Asp
                 50                  55                  60
Asp Asp Asp Glu Gly Val Pro Ser Ser Ala Leu Arg Glu Ile Cys
                 65                  70                  75
Leu Leu Lys Glu Leu Lys His Lys Asn Ile Val Arg Leu His Asp
                 80                  85                  90
Val Leu His Ser Asp Lys Lys Leu Thr Leu Val Phe Glu Phe Cys
                 95                 100                 105
Asp Gln Asp Leu Lys Lys Tyr Phe Asp Ser Cys Asn Gly Asp Leu
                110                 115                 120
Asp Pro Glu Ile Val Lys Ser Phe Leu Phe Gln Leu Leu Lys Gly
                125                 130                 135
Leu Gly Phe Cys His Ser Arg Asn Val Leu His Arg Asp Leu Lys
                140                 145                 150
Pro Gln Asn Leu Leu Ile Asn Arg Asn Gly Glu Leu Lys Leu Ala
                155                 160                 165
Asp Phe Gly Leu Ala Arg Ala Phe Gly Ile Pro Val Arg Cys Tyr
                170                 175                 180
Ser Ala Glu Val Val Thr Leu Trp Tyr Arg Pro Pro Asp Val Leu
                185                 190                 195
Phe Gly Ala Lys Leu Tyr Ser Thr Ser Ile Asp Met Trp Ser Ala
                200                 205                 210
Gly Cys Ile Phe Ala Glu Leu Ala Asn Ala Gly Arg Pro Leu Phe
                215                 220                 225
Pro Gly Asn Asp Val Asp Asp Gln Leu Lys Arg Ile Phe Arg Leu
                230                 235                 240
Leu Gly Thr Pro Thr Glu Glu Gln Trp Pro Ser Met Thr Lys Leu
                245                 250                 255
Pro Asp Tyr Lys Pro Tyr Pro Met Tyr Pro Ala Thr Thr Ser Leu
                260                 265                 270
Val Asn Val Val Pro Lys Leu Asn Ala Thr Gly Arg Asp Leu Leu
                275                 280                 285
```

```
Gln Asn Leu Leu Lys Cys Asn Pro Val Gln Arg Ile Ser Ala Glu
                290                 295                 300
Glu Ala Leu Gln His Pro Tyr Phe Ser Asp Phe Cys Pro Pro
                305                 310

<210> 3
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521738CD1

<400> 3
Met Val Val Glu Val Gly Thr Leu Asp Ala Gly Gly Leu Arg Ala
  1               5                  10                  15
Leu Leu Gly Glu Arg Ala Ala Gln Cys Leu Leu Leu Asp Cys Arg
                20                  25                  30
Ser Phe Phe Ala Phe Asn Ala Gly His Ile Ala Gly Ser Val Asn
                35                  40                  45
Val Arg Phe Ser Thr Ile Val Arg Arg Arg Ala Lys Gly Ala Met
                50                  55                  60
Gly Leu Glu His Ile Val Pro Asn Ala Glu Leu Arg Gly Arg Leu
                65                  70                  75
Leu Ala Gly Ala Tyr His Ala Val Val Leu Phe Val His Cys Gln
                80                  85                  90
Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met
                95                 100                 105
Arg Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys
               110                 115                 120
Gln Arg Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln
               125                 130                 135
Leu Leu Gln Phe Glu Ser Gln Val Leu Ala Pro His Cys Ser Ala
               140                 145                 150
Glu Ala Gly Ser Pro Ala Met Ala Val Leu Asp Arg Gly Thr Ser
               155                 160                 165
Thr Thr Thr Val Phe Asn Phe Pro Val Ser Ile Pro Val His Ser
               170                 175                 180
Thr Asn Ser Ala Leu Ser Tyr Leu Gln Ser Pro Ile Thr Thr Ser
               185                 190                 195
Pro Ser Cys


<210> 4
<211> 314
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522266CD1

<400> 4
Met Asp Leu Phe Gly Asp Leu Pro Glu Pro Glu Arg Ser Pro Arg
  1               5                  10                  15
Pro Ala Ala Gly Lys Glu Ala Gln Lys Gly Pro Leu Leu Phe Asp
                20                  25                  30
Asp Leu Pro Pro Ala Ser Ser Thr Asp Ser Gly Ser Gly Gly Pro
                35                  40                  45
Leu Leu Phe Asp Asp Leu Pro Pro Ala Ser Ser Gly Asp Ser Gly
                50                  55                  60
Ser Leu Ala Thr Ser Ile Ser Gln Met Val Lys Thr Glu Gly Lys
```

```
                65                  70                  75
Gly Ala Lys Arg Lys Thr Ser Glu Glu Glu Lys Asn Gly Ser Glu
                80                  85                  90
Glu Leu Val Glu Lys Lys Val Cys Lys Gly Asp Val Ile Ser Val
                95                 100                 105
Glu Lys Thr Val Lys Arg Cys Leu Leu Asp Thr Phe Lys His Thr
               110                 115                 120
Asp Glu Glu Phe Leu Lys Gln Ala Ser Ser Gln Lys Pro Ala Trp
               125                 130                 135
Lys Asp Gly Ser Thr Ala Thr Cys Val Leu Ala Val Asp Asn Ile
               140                 145                 150
Leu Tyr Ile Ala Asn Leu Gly Asp Ser Arg Ala Ile Leu Cys Arg
               155                 160                 165
Tyr Asn Glu Glu Ser Gln Lys His Ala Ala Leu Ser Leu Ser Lys
               170                 175                 180
Glu His Asn Pro Thr Gln Tyr Glu Glu Arg Met Arg Ile Gln Lys
               185                 190                 195
Ala Gly Gly Asn Val Arg Asp Gly Arg Val Leu Gly Val Leu Glu
               200                 205                 210
Val Ser Arg Ser Ile Gly Asp Gly Gln Tyr Lys Arg Cys Gly Val
               215                 220                 225
Thr Ser Val Pro Asp Ile Arg Arg Cys Gln Leu Thr Pro Asn Asp
               230                 235                 240
Arg Phe Ile Leu Leu Ala Cys Asp Gly Leu Phe Lys Val Phe Thr
               245                 250                 255
Pro Glu Glu Ala Val Asn Phe Ile Leu Ser Cys Leu Glu Asp Glu
               260                 265                 270
Lys Ile Gln Thr Arg Glu Gly Lys Ser Ala Ala Asp Ala Arg Tyr
               275                 280                 285
Glu Ala Ala Cys Asn Arg Leu Ala Asn Lys Ala Val Gln Arg Gly
               290                 295                 300
Ser Ala Asp Asn Val Thr Val Met Val Val Arg Ile Gly His
               305                 310
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<210> 5
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523011CD1

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<400> 5
Met Thr Leu Asp Val Gly Pro Glu Asp Glu Leu Pro Asp Trp Ala
  1                 5                  10                  15
Ala Ala Lys Glu Phe Tyr Gln Lys Tyr Asp Pro Lys Asp Val Ile
               20                  25                  30
Gly Arg Gly Val Ser Ser Val Val Arg Arg Cys Val His Arg Ala
               35                  40                  45
Thr Gly His Glu Phe Ala Val Lys Ile Met Glu Val Thr Ala Glu
               50                  55                  60
Arg Leu Ser Pro Glu Gln Leu Glu Glu Val Arg Glu Ala Thr Arg
               65                  70                  75
Arg Glu Thr His Ile Leu Arg Gln Ser Pro Ser Ser Ile Pro Thr
               80                  85                  90
Ser Leu Leu Ala Ser Cys Ser Trp Cys Leu Thr
               95                 100
```

<210> 6
<211> 168
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 7523290CD1

<400> 6
Met Ile Thr Gly Val Phe Ser Met Arg Leu Trp Thr Pro Val Gly
1 5 10 15
Val Leu Thr Ser Leu Ala Tyr Cys Leu His Gln Arg Arg Val Ala
20 25 30
Leu Ala Glu Leu Gln Glu Ala Asp Gly Gln Cys Pro Val Asp Arg
35 40 45
Ser Leu Leu Lys Leu Lys Met Val Gln Val Val Phe Arg His Gly
50 55 60
Ala Arg Ser Pro Leu Lys Pro Leu Pro Leu Glu Glu Gln Gly Gly
65 70 75
Met Phe Ala Gly Gln Leu Thr Lys Val Gly Met Gln Gln Met Phe
80 85 90
Ala Leu Gly Glu Arg Leu Arg Lys Asn Tyr Val Glu Asp Ile Pro
95 100 105
Phe Leu Ser Pro Thr Phe Asn Pro Gln Glu Val Phe Ile Arg Ser
110 115 120
Thr Asn Ile Phe Arg Asn Leu Glu Ser Thr Arg Cys Leu Leu Ala
125 130 135
Gly Leu Phe Gln Cys Gln Lys Glu Asp Lys Arg Thr Lys Thr Gln
140 145 150
Arg Gly Ser Val Thr Cys Pro Gly Thr Gln Asn Trp Thr His His
155 160 165
His Pro His

<210> 7
<211> 44
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 7523379CD1

<400> 7
Met Lys Asn Tyr Lys Ala Ile Gly Lys Ile Gly Glu Gly Thr Phe
1 5 10 15
Ser Glu Val Met Lys Met Gln Ser Leu Arg Asp Gly Asn Tyr Tyr
20 25 30
Ala Cys Lys Gln Met Lys Gln Arg Phe Glu Arg Leu Gly Asn
35 40

<210> 8
<211> 240
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523387CD1

<400> 8
Met Ser Ser Arg Lys Leu Ser Gly Pro Lys Gly Arg Arg Leu Ser
1 5 10 15
Ile His Val Val Thr Trp Asn Val Ala Ser Ala Ala Pro Pro Leu
20 25 30
Asp Leu Ser Asp Leu Leu Gln Leu Asn Asn Arg Asn Leu Asn Leu
35 40 45

```
Asp Ile Tyr Val Ile Gly Glu Lys Lys Arg Lys Pro Ala Trp Thr
                50                  55                  60
Asp Arg Ile Leu Trp Arg Leu Lys Arg Gln Pro Cys Ala Gly Pro
                65                  70                  75
Asp Thr Pro Ile Pro Pro Ala Ser His Phe Ser Leu Ser Leu Arg
                80                  85                  90
Gly Tyr Ser Ser His Met Thr Tyr Gly Ile Ser Asp His Lys Pro
                95                 100                 105
Val Ser Gly Thr Phe Asp Leu Glu Leu Lys Pro Leu Val Ser Ala
               110                 115                 120
Pro Leu Ile Val Leu Met Pro Glu Asp Leu Trp Thr Val Glu Asn
               125                 130                 135
Asp Met Met Val Ser Tyr Ser Ser Thr Ser Asp Phe Pro Ser Ser
               140                 145                 150
Pro Trp Asp Trp Ile Gly Leu Tyr Lys Val Gly Leu Arg Asp Val
               155                 160                 165
Asn Asp Tyr Val Ser Tyr Ala Trp Val Gly Asp Ser Lys Val Ser
               170                 175                 180
Cys Ser Asp Asn Leu Asn Gln Val Tyr Ile Asp Ile Ser Asn Ile
               185                 190                 195
Pro Thr Thr Glu Asp Glu Phe Leu Leu Cys Tyr Tyr Ser Asn Ser
               200                 205                 210
Leu Arg Ser Val Val Gly Ile Ser Arg Pro Phe Gln Ile Pro Pro
               215                 220                 225
Gly Ser Leu Arg Glu Asp Pro Leu Gly Glu Ala Gln Pro Gln Ile
               230                 235                 240
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<210> 9
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521804CD1

<400> 9

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Met Ser Ile Glu Ile Pro Ala Gly Leu Thr Glu Leu Leu Gln Gly
  1                 5                  10                  15
Phe Thr Val Glu Val Leu Arg His Gln Pro Ala Asp Leu Leu Glu
                20                  25                  30
Phe Ala Leu Gln His Phe Thr Arg Leu Gln Gln Glu Asn Glu Arg
                35                  40                  45
Lys Gly Thr Ala Arg Phe Gly His Glu Gly Arg Thr Trp Gly Asp
                50                  55                  60
Leu Gly Ala Ala Ala Gly Gly Gly Thr Pro Ser Lys Gly Val Asn
                65                  70                  75
Phe Ala Glu Glu Pro Met Gln Ser Asp Ser Glu Asp Gly Glu Glu
                80                  85                  90
Glu Glu Ala Ala Pro Ala Asp Ala Gly Ala Phe Asn Ala Pro Val
                95                 100                 105
Ile Asn Arg Phe Thr Arg Arg Ala Ser Val Cys Ala Glu Ala Tyr
               110                 115                 120
Asn Pro Asp Glu Glu Glu Asp Asp Ala Glu Ser Arg Ile Ile His
               125                 130                 135
Pro Lys Thr Asp Asp Gln Arg Asn Arg Leu Gln Glu Ala Cys Lys
               140                 145                 150
Asp Ile Leu Leu Phe Lys Asn Leu Asp Pro Ile Trp Ile Leu Met
               155                 160                 165
Val Trp Ser Gly Ala
               170
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<210> 10
<211> 323
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 7521841CD1

<400> 10
Met Ala Glu Pro Asp Leu Glu Cys Glu Gln Ile Arg Leu Lys Cys
1 5 10 15
Ile His Arg Ala Arg Asp Thr Gln Thr Asp Glu Ile Val Ala Leu
20 25 30
Lys Lys Val Arg Met Asp Lys Glu Lys Asp Gly Ile Pro Ile Ser
35 40 45
Ser Leu Arg Glu Ile Thr Leu Leu Leu Arg Leu Arg His Pro Asn
50 55 60
Ile Val Glu Leu Lys Glu Val Val Val Arg Asn His Leu Glu Ser
65 70 75
Ile Phe Leu Val Met Gly Tyr Cys Glu Gln Asp Leu Ala Ser Leu
80 85 90
Leu Glu Asn Met Pro Thr Pro Phe Ser Glu Ala Gln Val Lys Cys
95 100 105
Ile Val Leu Gln Val Leu Arg Gly Leu Gln Tyr Leu His Arg Asn
110 115 120
Phe Ile Ile His Arg Asp Leu Lys Val Ser Asn Leu Leu Met Thr
125 130 135
Asp Lys Gly Cys Val Lys Thr Ala Asp Phe Gly Leu Ala Arg Ala
140 145 150
Tyr Gly Val Pro Val Lys Pro Met Thr Pro Lys Val Val Thr Leu
155 160 165
Trp Tyr Arg Ala Pro Glu Leu Leu Leu Gly Thr Thr Thr Gln Thr
170 175 180
Thr Ser Ile Asp Met Trp Ala Val Gly Cys Ile Leu Ala Glu Leu
185 190 195
Leu Ala His Arg Pro Leu Leu Pro Gly Thr Ser Glu Ile His Gln
200 205 210
Ile Asp Leu Ile Val Gln Leu Leu Gly Thr Pro Ser Glu Asn Ile
215 220 225
Trp Pro Gly Phe Ser Lys Leu Pro Leu Val Gly Gln Tyr Ser Leu
230 235 240
Arg Lys Gln Pro Tyr Asn Asn Leu Lys His Lys Phe Pro Trp Leu
245 250 255
Ser Glu Ala Gly Leu Arg Leu Leu His Phe Leu Phe Met Tyr Asp
260 265 270
Pro Lys Lys Arg Ala Thr Ala Gly Asp Cys Leu Glu Ser Ser Tyr
275 280 285
Phe Lys Glu Lys Pro Leu Pro Cys Glu Pro Glu Leu Met Pro Thr
290 295 300
Phe Pro His His Arg Asn Lys Arg Ala Ala Pro Ala Thr Ser Glu
305 310 315
Gly Gln Ser Lys Arg Cys Lys Pro
320

<210> 11
<211> 73
<212> PRT
<213> Homo sapiens

<220>
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1 5 10 15
Glu Ala Arg Gly Gly Arg Glu Gly Ala Val Leu Ala Gly Glu Phe
20 25 30
Ser Asp Ile Gln Ala Cys Ser Ala Ala Trp Lys Ala Asp Gly Val
35 40 45
Cys Ser Thr Val Ala Gly Ser Arg Pro Glu Asn Val Arg Lys Asn
50 55 60
Arg Tyr Lys Asp Val Leu Pro Cys Lys Ser Gly Leu Pro
65 70

<210> 12
<211> 237
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 7521897CD1

<400> 12
Met Glu Ala Pro Gly Pro Ala Gln Ala Ala Ala Ala Glu Ser Asn
1 5 10 15
Ser Arg Glu Val Thr Glu Asp Ala Ala Asp Trp Ala Pro Ala Leu
20 25 30
Cys Pro Ser Pro Glu Ala Arg Ser Pro Glu Ala Pro Ala Tyr Arg
35 40 45
Leu Gln Asp Cys Asp Ala Leu Val Thr Met Gly Thr Gly Thr Phe
50 55 60
Gly Arg Val His Leu Val Lys Glu Lys Thr Ala Lys His Phe Phe
65 70 75
Ala Leu Lys Val Met Ser Ile Pro Asp Val Ile Arg Arg Lys Gln
80 85 90
Glu Gln His Val His Asn Glu Lys Ser Val Leu Lys Glu Val Ser
95 100 105
His Pro Phe Leu Ile Arg Leu Phe Trp Thr Trp His Glu Glu Arg
110 115 120
Phe Leu Tyr Met Leu Met Glu Tyr Val Pro Gly Gly Glu Leu Phe
125 130 135
Ser Tyr Leu Arg Asn Arg Gly His Phe Ser Ser Thr Thr Gly Leu
140 145 150
Phe Tyr Ser Ala Glu Ile Ile Cys Ala Ile Glu Tyr Leu His Ser
155 160 165
Lys Glu Ile Val Tyr Arg Asp Leu Lys Pro Glu Asn Ile Leu Leu
170 175 180
Asp Arg Asp Gly His Ile Lys Leu Thr Asp Phe Gly Phe Ala Lys
185 190 195
Lys Leu Val Asp Arg Phe Pro Pro Phe Phe Asp Asp Asn Pro Phe
200 205 210
Gly Ile Tyr Gln Lys Ile Leu Ala Gly Lys Leu Tyr Phe Pro Arg
215 220 225
His Leu Asp Phe His Val Lys Thr Gly Arg Met Met
230 235

<210> 13
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521995CD1

<400> 13
Met Ala Glu Gln Ala Thr Lys Ser Val Leu Phe Val Cys Leu Gly
1 5 10 15
Asn Ile Cys Arg Ser Pro Ile Ala Glu Ala Val Phe Arg Lys Leu
20 25 30
Val Thr Asp Gln Asn Ile Ser Glu Asn Trp Arg Val Asp Ser Ala
35 40 45
Ala Thr Ser Gly Tyr Glu Ile Gly Asn Pro Pro Asp Tyr Arg Gly
50 55 60
Gln Ser Cys Met Lys Arg His Gly Ile Pro Met Ser His Val Ala
65 70 75
Arg Gln Arg Phe Glu
80

<210> 14
<211> 424
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522018CD1

<400> 14
Met Glu Leu Glu Asn Ile Val Ala Asn Ser Leu Leu Leu Lys Ala
1 5 10 15
Arg Gln Glu Lys Asp Tyr Ser Ser Leu Cys Asp Lys Gln Pro Ile
20 25 30
Gly Arg Arg Leu Phe Arg Gln Phe Cys Asp Thr Lys Pro Thr Leu
35 40 45
Lys Arg His Ile Glu Phe Leu Asp Ala Val Ala Glu Tyr Glu Val
50 55 60
Ala Asp Asp Glu Asp Arg Ser Asp Cys Gly Leu Ser Ile Leu Asp
65 70 75
Arg Phe Phe Asn Asp Lys Leu Ala Ala Pro Leu Pro Glu Ile Pro
80 85 90
Pro Asp Val Val Thr Glu Cys Arg Leu Gly Leu Lys Glu Glu Asn
95 100 105
Pro Ser Lys Lys Ala Phe Glu Glu Cys Thr Arg Val Ala His Asn
110 115 120
Tyr Leu Arg Gly Glu Pro Phe Glu Glu Tyr Gln Glu Ser Pro Tyr
125 130 135
Phe Ser Gln Phe Leu Gln Trp Lys Trp Leu Glu Arg Gln Pro Val
140 145 150
Thr Lys Asn Thr Phe Arg His Tyr Arg Val Leu Gly Lys Gly Gly
155 160 165
Phe Gly Glu Val Cys Ala Cys Gln Val Arg Ala Thr Gly Lys Met
170 175 180
Tyr Ala Cys Lys Lys Leu Gln Lys Lys Arg Ile Lys Lys Arg Thr
185 190 195
Gly Glu Ala Met Ala Leu Asn Glu Lys Arg Ile Leu Glu Lys Val
200 205 210
Gln Ser Arg Phe Val Val Ser Leu Ala Tyr Ala Tyr Glu Thr Lys
215 220 225
Asp Ala Leu Cys Leu Val Leu Thr Ile Met Asn Gly Gly Asp Leu
230 235 240
Lys Phe His Ile Tyr Asn Leu Gly Asn Pro Gly Phe Asp Glu Gln
245 250 255
Arg Ala Val Phe Tyr Ala Ala Glu Leu Cys Cys Gly Leu Glu Asp
260 265 270
Leu Gln Arg Glu Arg Ile Val Tyr Arg Asp Leu Lys Pro Glu Asn
275 280 285
Ile Leu Leu Asp Asp Arg Ala Pro Glu Val Val Asn Asn Glu Lys

```
                290                 295                 300
Tyr Thr Phe Ser Pro Asp Trp Trp Gly Leu Gly Cys Leu Ile Tyr
                305                 310                 315
Glu Met Ile Gln Gly His Ser Pro Phe Lys Lys Tyr Lys Glu Lys
                320                 325                 330
Val Lys Trp Glu Glu Val Asp Gln Arg Ile Lys Asn Asp Thr Glu
                335                 340                 345
Glu Tyr Ser Glu Lys Phe Ser Glu Asp Ala Lys Ser Ile Cys Arg
                350                 355                 360
Met Met Ile Glu Ser Gly Cys Phe Lys Asp Ile Asn Lys Ser Glu
                365                 370                 375
Ser Glu Glu Ala Leu Pro Leu Asp Leu Asp Lys Asn Ile His Thr
                380                 385                 390
Pro Val Ser Arg Pro Asn Arg Gly Phe Phe Tyr Arg Leu Phe Arg
                395                 400                 405
Arg Gly Gly Cys Leu Thr Met Val Pro Ser Glu Lys Glu Val Glu
                410                 415                 420
Pro Lys Gln Cys
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<210> 15
<211> 2091
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523799CD1

<400> 15

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Arg Ala Lys Ala Ala Arg Pro Gly Pro Gln Arg Phe Leu Arg Arg
                 20                  25                  30
Ser Val Val Glu Ser Asp Gln Glu Glu Pro Pro Gly Leu Glu Ala
                 35                  40                  45
Ala Glu Ala Pro Gly Pro Gln Pro Pro Gln Pro Leu Gln Arg Arg
                 50                  55                  60
Val Leu Leu Leu Cys Lys Thr Arg Arg Leu Ile Ala Glu Arg Ala
                 65                  70                  75
Arg Gly Arg Pro Ala Ala Pro Ala Pro Ala Ala Leu Val Ala Gln
                 80                  85                  90
Pro Gly Ala Pro Gly Ala Pro Ala Asp Ala Gly Pro Glu Pro Val
                 95                 100                 105
Gly Thr Gln Glu Pro Gly Pro Asp Pro Ile Ala Ala Ala Val Glu
                110                 115                 120
Thr Ala Pro Ala Pro Asp Gly Gly Pro Arg Glu Glu Ala Ala Ala
                125                 130                 135
Thr Val Arg Lys Glu Asp Glu Gly Ala Ala Glu Ala Lys Pro Glu
                140                 145                 150
Pro Gly Arg Thr Arg Arg Asp Glu Pro Glu Glu Glu Glu Asp Asp
                155                 160                 165
Glu Asp Asp Leu Lys Ala Val Ala Thr Ser Leu Asp Gly Arg Phe
                170                 175                 180
Leu Lys Phe Asp Ile Glu Leu Gly Arg Gly Ser Phe Lys Thr Val
                185                 190                 195
Tyr Lys Gly Leu Asp Thr Glu Thr Trp Val Glu Val Ala Trp Cys
                200                 205                 210
Glu Leu Gln Asp Arg Lys Leu Thr Lys Leu Glu Arg Gln Arg Phe
                215                 220                 225
Lys Glu Glu Ala Glu Met Leu Lys Gly Leu Gln His Pro Asn Ile
                230                 235                 240
Val Arg Phe Tyr Asp Phe Trp Glu Ser Ser Ala Lys Gly Lys Arg
```

```
                245                 250                 255
Cys Ile Val Leu Val Thr Glu Leu Met Thr Ser Gly Thr Leu Lys
            260                 265                 270
Thr Tyr Leu Lys Arg Phe Lys Val Met Lys Pro Lys Val Leu Arg
        275                 280                 285
Ser Trp Cys Arg Gln Ile Leu Lys Gly Leu Leu Phe Leu His Thr
    290                 295                 300
Arg Thr Pro Pro Ile Ile His Arg Asp Leu Lys Cys Asp Asn Ile
305                 310                 315
Phe Ile Thr Gly Pro Thr Gly Ser Val Lys Ile Gly Asp Leu Gly
            320                 325                 330
Leu Ala Thr Leu Lys Arg Ala Ser Phe Ala Lys Ser Val Ile Gly
        335                 340                 345
Thr Pro Glu Phe Met Ala Pro Glu Met Tyr Glu Glu His Tyr Asp
    350                 355                 360
Glu Ser Val Asp Val Tyr Ala Phe Gly Met Cys Met Leu Glu Met
365                 370                 375
Ala Thr Ser Glu Tyr Pro Tyr Ser Glu Cys Gln Asn Ala Ala Gln
            380                 385                 390
Ile Tyr Arg Lys Val Thr Cys Gly Ile Lys Pro Ala Ser Phe Glu
        395                 400                 405
Lys Val His Asp Pro Glu Ile Lys Glu Ile Ile Gly Gly Cys Ile
    410                 415                 420
Cys Lys Asn Lys Glu Glu Arg Tyr Glu Ile Lys Asp Leu Leu Ser
425                 430                 435
His Ala Phe Phe Ala Glu Asp Thr Gly Val Arg Val Glu Leu Ala
            440                 445                 450
Glu Glu Asp His Gly Arg Lys Ser Thr Ile Ala Leu Arg Leu Trp
        455                 460                 465
Val Glu Asp Pro Lys Lys Leu Lys Gly Lys Pro Lys Asp Asn Gly
    470                 475                 480
Ala Ile Glu Phe Thr Phe Asp Leu Glu Lys Glu Thr Pro Asp Glu
485                 490                 495
Val Ala Gln Glu Met Ile Glu Ser Gly Phe Phe His Glu Ser Asp
            500                 505                 510
Val Lys Ile Val Ala Lys Ser Ile Arg Asp Arg Val Ala Leu Ile
        515                 520                 525
Gln Trp Arg Arg Glu Arg Ile Trp Pro Ala Leu Gln Pro Lys Glu
    530                 535                 540
Gln Gln Asp Val Gly Ser Pro Asp Lys Ala Arg Gly Pro Pro Val
545                 550                 555
Pro Leu Gln Val Gln Val Thr Tyr His Ala Gln Ala Gly Gln Pro
            560                 565                 570
Gly Pro Pro Glu Pro Glu Glu Pro Glu Ala Asp Gln His Leu Leu
        575                 580                 585
Pro Pro Thr Leu Pro Thr Ser Ala Thr Ser Leu Ala Ser Asp Ser
    590                 595                 600
Thr Phe Asp Ser Gly Gln Gly Ser Thr Val Tyr Ser Asp Ser Gln
605                 610                 615
Ser Ser Gln Gln Ser Val Met Leu Gly Ser Leu Ala Asp Ala Ala
            620                 625                 630
Pro Ser Pro Ala Gln Cys Val Cys Ser Pro Pro Val Ser Glu Gly
        635                 640                 645
Pro Val Leu Pro Gln Ser Leu Pro Ser Leu Gly Ala Tyr Gln Gln
    650                 655                 660
Pro Thr Ala Ala Pro Gly Leu Pro Val Gly Ser Val Pro Ala Pro
665                 670                 675
Ala Cys Pro Pro Ser Leu Gln Gln His Phe Pro Asp Pro Ala Met
            680                 685                 690
Ser Phe Ala Pro Val Leu Pro Pro Pro Ser Thr Pro Met Pro Thr
        695                 700                 705
Gly Pro Gly Gln Pro Ala Pro Pro Gly Gln Gln Pro Pro Pro Leu
    710                 715                 720
```

Ala Gln Pro Thr Pro Leu Pro Gln Val Leu Ala Pro Gln Pro Val
725 730 735
Val Pro Leu Gln Pro Val Pro Pro His Leu Pro Pro Tyr Leu Ala
740 745 750
Pro Ala Ser Gln Val Gly Ala Pro Ala Gln Leu Lys Pro Leu Gln
755 760 765
Met Pro Gln Ala Pro Leu Gln Pro Leu Ala Gln Val Pro Pro Gln
770 775 780
Met Pro Pro Ile Pro Val Val Pro Pro Ile Thr Pro Leu Ala Gly
785 790 795
Ile Asp Gly Leu Pro Pro Ala Leu Pro Asp Leu Pro Thr Ala Thr
800 805 810
Val Pro Pro Met Pro Pro Pro Gln Tyr Phe Ser Pro Ala Val Ile
815 820 825
Leu Pro Ser Leu Ala Ala Pro Leu Pro Pro Ala Ser Pro Ala Leu
830 835 840
Pro Leu Gln Ala Val Lys Leu Pro His Pro Pro Gly Ala Pro Leu
845 850 855
Ala Met Pro Cys Arg Thr Ile Val Pro Asn Ala Pro Ala Thr Ile
860 865 870
Pro Leu Leu Ala Val Ala Pro Pro Gly Val Ala Ala Leu Ser Ile
875 880 885
His Ser Ala Val Ala Gln Leu Pro Gly Gln Pro Val Tyr Pro Ala
890 895 900
Ala Phe Pro Gln Met Ala Pro Thr Asp Val Pro Pro Ser Pro His
905 910 915
His Thr Val Gln Asn Met Arg Ala Thr Pro Pro Gln Pro Ala Leu
920 925 930
Pro Pro Gln Pro Thr Leu Pro Pro Gln Pro Val Leu Pro Pro Gln
935 940 945
Pro Thr Leu Pro Pro Gln Pro Val Leu Pro Pro Gln Pro Thr Arg
950 955 960
Pro Pro Gln Pro Val Leu Pro Pro Gln Pro Met Leu Pro Pro Gln
965 970 975
Pro Val Leu Pro Pro Gln Pro Ala Leu Pro Val Arg Pro Glu Pro
980 985 990
Leu Gln Pro His Leu Pro Glu Gln Ala Ala Pro Ala Ala Thr Pro
995 1000 1005
Gly Ser Gln Ile Leu Leu Gly His Pro Ala Pro Tyr Ala Val Asp
1010 1015 1020
Val Ala Ala Gln Val Pro Thr Val Pro Val Pro Pro Ala Ala Val
1025 1030 1035
Leu Ser Pro Pro Leu Pro Glu Val Leu Leu Pro Ala Ala Pro Glu
1040 1045 1050
Leu Leu Pro Gln Phe Pro Ser Ser Leu Ala Thr Val Ser Ala Ser
1055 1060 1065
Val Gln Ser Val Pro Thr Gln Thr Ala Thr Leu Leu Pro Pro Ala
1070 1075 1080
Asn Pro Pro Leu Pro Gly Gly Pro Gly Ile Ala Ser Pro Cys Pro
1085 1090 1095
Thr Val Gln Leu Thr Val Glu Pro Val Gln Glu Glu Gln Ala Ser
1100 1105 1110
Gln Asp Lys Pro Pro Gly Leu Pro Gln Ser Cys Glu Ser Tyr Gly
1115 1120 1125
Gly Ser Asp Val Thr Ser Gly Lys Glu Leu Ser Asp Ser Cys Glu
1130 1135 1140
Gly Ala Phe Gly Gly Gly Arg Leu Glu Gly Arg Ala Ala Arg Lys
1145 1150 1155
His His Arg Arg Ser Thr Arg Ala Arg Ser Arg Gln Glu Arg Ala
1160 1165 1170
Ser Arg Pro Arg Leu Thr Ile Leu Asn Val Cys Asn Thr Gly Asp
1175 1180 1185
Lys Met Val Glu Cys Gln Leu Glu Thr His Asn His Lys Met Val

1190 1195 1200
Thr Phe Lys Phe Asp Leu Asp Gly Asp Ala Pro Asp Glu Ile Ala
1205 1210 1215
Thr Tyr Met Val Glu His Asp Phe Ile Leu Gln Ala Glu Arg Glu
1220 1225 1230
Thr Phe Ile Glu Gln Met Lys Asp Val Met Asp Lys Ala Glu Asp
1235 1240 1245
Met Leu Ser Glu Asp Thr Asp Ala Asp Arg Gly Ser Asp Pro Gly
1250 1255 1260
Thr Ser Pro Pro His Leu Ser Thr Cys Gly Leu Gly Thr Gly Glu
1265 1270 1275
Glu Ser Arg Gln Ser Gln Ala Asn Ala Pro Val Tyr Gln Gln Asn
1280 1285 1290
Val Leu His Thr Gly Lys Arg Trp Phe Ile Ile Cys Pro Val Ala
1295 1300 1305
Glu His Pro Ala Pro Glu Ala Pro Glu Ser Ser Pro Pro Leu Pro
1310 1315 1320
Leu Ser Ser Leu Pro Pro Glu Ala Ser Gln Asp Ser Ala Pro Tyr
1325 1330 1335
Lys Asp Gln Leu Ser Ser Lys Glu Gln Pro Ser Phe Leu Ala Ser
1340 1345 1350
Gln Gln Leu Leu Ser Gln Ala Gly Pro Ser Asn Pro Pro Gly Ala
1355 1360 1365
Pro Pro Ala Pro Leu Ala Pro Ser Ser Pro Pro Val Thr Ala Leu
1370 1375 1380
Pro Gln Asp Gly Ala Ala Pro Ala Thr Ser Thr Met Pro Glu Pro
1385 1390 1395
Ala Ser Gly Thr Ala Ser Gln Ala Gly Gly Pro Gly Thr Pro Gln
1400 1405 1410
Gly Leu Thr Ser Glu Leu Glu Thr Ser Gln Pro Leu Ala Glu Thr
1415 1420 1425
His Glu Ala Pro Leu Ala Val Gln Pro Leu Val Val Gly Leu Ala
1430 1435 1440
Pro Cys Thr Pro Ala Pro Glu Ala Ala Ser Thr Arg Asp Ala Ser
1445 1450 1455
Ala Pro Arg Glu Pro Leu Pro Pro Pro Ala Pro Glu Pro Ser Pro
1460 1465 1470
His Ser Gly Thr Pro Gln Pro Ala Leu Gly Gln Pro Ala Pro Leu
1475 1480 1485
Leu Pro Ala Ala Val Gly Ala Val Ser Leu Ala Thr Ser Gln Leu
1490 1495 1500
Pro Ser Pro Pro Leu Gly Pro Thr Val Pro Pro Gln Pro Pro Ser
1505 1510 1515
Ala Leu Glu Ser Asp Gly Glu Gly Pro Pro Pro Arg Val Gly Phe
1520 1525 1530
Val Asp Ser Thr Ile Lys Ser Leu Asp Glu Lys Leu Arg Thr Leu
1535 1540 1545
Leu Tyr Gln Glu His Val Pro Thr Ser Ser Ala Ser Ala Gly Thr
1550 1555 1560
Pro Val Glu Val Gly Asp Arg Asp Phe Thr Leu Glu Pro Leu Arg
1565 1570 1575
Gly Asp Gln Pro Arg Ser Glu Val Cys Gly Gly Asp Leu Ala Leu
1580 1585 1590
Pro Pro Val Pro Lys Glu Ala Val Ser Gly Arg Val Gln Leu Pro
1595 1600 1605
Gln Pro Leu Val Glu Lys Ser Glu Leu Ala Pro Thr Arg Gly Ala
1610 1615 1620
Val Met Glu Gln Gly Thr Ser Ser Ser Met Thr Ala Glu Ser Ser
1625 1630 1635
Pro Arg Ser Met Leu Gly Tyr Asp Arg Asp Gly Arg Gln Val Ala
1640 1645 1650
Ser Asp Ser His Val Val Pro Ser Val Pro Gln Asp Val Pro Ala
1655 1660 1665

Phe Val Arg Pro Ala Arg Val Glu Pro Thr Asp Arg Asp Gly Gly
1670 1675 1680
Glu Ala Gly Glu Ser Ser Ala Glu Pro Pro Pro Ser Asp Met Gly
1685 1690 1695
Thr Val Gly Gly Gln Ala Ser His Pro Gln Thr Leu Gly Ala Arg
1700 1705 1710
Ala Leu Gly Ser Pro Arg Lys Arg Pro Glu Gln Gln Asp Val Ser
1715 1720 1725
Ser Pro Ala Lys Thr Val Gly Arg Phe Ser Val Val Ser Thr Gln
1730 1735 1740
Asp Glu Trp Thr Leu Ala Ser Pro His Ser Leu Arg Tyr Ser Ala
1745 1750 1755
Pro Pro Asp Val Tyr Leu Asp Glu Ala Pro Ser Ser Pro Asp Val
1760 1765 1770
Lys Leu Ala Val Arg Arg Ala Gln Thr Ala Ser Ser Ile Glu Val
1775 1780 1785
Gly Val Gly Glu Pro Val Ser Ser Asp Ser Gly Asp Glu Gly Pro
1790 1795 1800
Arg Ala Arg Pro Pro Val Gln Lys Gln Ala Ser Leu Pro Val Ser
1805 1810 1815
Gly Ser Val Ala Gly Asp Phe Val Lys Lys Ala Thr Ala Phe Leu
1820 1825 1830
Gln Arg Pro Ser Arg Ala Gly Ser Leu Gly Pro Glu Thr Pro Ser
1835 1840 1845
Arg Val Gly Met Lys Val Pro Thr Ile Ser Val Thr Ser Phe His
1850 1855 1860
Ser Gln Ser Ser Tyr Ile Ser Ser Asp Asn Asp Ser Glu Leu Glu
1865 1870 1875
Asp Ala Asp Ile Lys Lys Glu Leu Gln Ser Leu Arg Glu Lys His
1880 1885 1890
Leu Lys Glu Ile Ser Glu Leu Gln Ser Gln Gln Lys Gln Glu Ile
1895 1900 1905
Glu Ala Leu Tyr Arg Arg Leu Gly Lys Pro Leu Pro Pro Asn Val
1910 1915 1920
Gly Phe Phe His Thr Ala Pro Pro Thr Gly Arg Arg Arg Lys Thr
1925 1930 1935
Ser Lys Ser Lys Leu Lys Ala Gly Lys Leu Leu Asn Pro Leu Val
1940 1945 1950
Arg Gln Leu Lys Val Val Ala Ser Ser Thr Gly Ser Ser Thr Ser
1955 1960 1965
Ser Leu Ala Pro Gly Pro Glu Pro Gly Pro Gln Pro Ala Leu His
1970 1975 1980
Val Gln Ala Gln Val Asn Asn Ser Asn Asn Lys Lys Gly Thr Phe
1985 1990 1995
Thr Asp Asp Leu His Lys Leu Val Asp Glu Trp Thr Ser Lys Thr
2000 2005 2010
Val Gly Ala Ala Gln Leu Lys Pro Thr Leu Asn Gln Leu Lys Gln
2015 2020 2025
Thr Gln Lys Leu Gln Asp Met Glu Ala Gln Ala Gly Trp Ala Ala
2030 2035 2040
Pro Gly Glu Ala Arg Ala Met Thr Ala Pro Arg Ala Gly Val Gly
2045 2050 2055
Met Pro Arg Leu Pro Pro Ala Pro Gly Pro Leu Ser Thr Thr Val
2060 2065 2070
Ile Pro Gly Ala Ala Pro Thr Leu Ser Val Pro Thr Pro Asp Pro
2075 2080 2085
Glu Ser Glu Lys Pro Asp
2090

<210> 16
<211> 269
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521743CD1

<400> 16
Met Ala Gly Ala Gly Gly Gly Asn Asp Ile Gln Trp Cys Phe Ser
1 5 10 15
Gln Val Lys Gly Ala Val Asp Asp Asp Val Ala Glu Ala Asp Ile
20 25 30
Ile Ser Thr Val Glu Phe Asn His Ser Gly Glu Leu Leu Ala Thr
35 40 45
Gly Asp Lys Gly Gly Arg Val Val Ile Phe Gln Gln Glu Gln Glu
50 55 60
Asn Lys Ile Gln Ser His Ser Arg Gly Glu Tyr Asn Val Tyr Ser
65 70 75
Thr Phe Gln Ser His Glu Pro Glu Phe Asp Tyr Leu Lys Ser Leu
80 85 90
Glu Ile Glu Glu Lys Ile Asn Lys Ile Arg Trp Leu Pro Gln Lys
95 100 105
Asn Ala Ala Gln Phe Leu Leu Ser Thr Asn Asp Lys Thr Ile Lys
110 115 120
Leu Trp Lys Ile Ser Glu Arg Asp Lys Arg Pro Glu Gly Tyr Asn
125 130 135
Leu Lys Glu Glu Asp Gly Arg Tyr Arg Asp Pro Thr Thr Val Thr
140 145 150
Thr Leu Arg Val Pro Val Phe Arg Pro Met Asp Leu Met Val Glu
155 160 165
Ala Ser Pro Arg Arg Ile Phe Ala Asn Ala His Thr Tyr His Ile
170 175 180
Asn Ser Ile Ser Ile Asn Ser Asp Tyr Glu Thr Tyr Leu Ser Ala
185 190 195
Asp Asp Leu Arg Ile Asn Leu Trp His Leu Glu Ile Thr Asp Arg
200 205 210
Ser Phe Asn Ile Val Asp Ile Lys Pro Ala Asn Met Glu Glu Leu
215 220 225
Thr Glu Val Ile Thr Ala Ala Glu Phe His Pro Asn Ser Cys Asn
230 235 240
Thr Phe Val Tyr Ser Ser Ser Lys Gly Thr Ile Arg Leu Cys Asp
245 250 255
Met Arg Ala Ser Ala Leu Cys Asp Arg His Ser Lys Cys Ala
260 265

<210> 17
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522317CD1

<400> 17
Met Val Gln Ala His Gly Gly Arg Ser Arg Ala Gln Pro Leu Thr
1 5 10 15
Leu Ser Leu Gly Ala Ala Met Thr Gln Pro Pro Pro Glu Lys Thr
20 25 30
Pro Ala Lys Lys His Val Arg Leu Gln Glu Arg Thr His Leu Leu
35 40 45
Cys Glu His Thr Pro Gly Gly His Pro Thr Leu Ser Ala His Cys
50 55 60
Trp Thr Pro Pro Tyr Pro Leu Gly Pro Ser Ala Pro Ala Thr Gln
65 70 75
Pro Gln Ala Pro Gly Arg Arg Ile Leu Glu Asp Pro Ser Lys Leu

```
                  80                  85                  90
Cys Gln Pro Arg Arg Pro Gly His Pro Trp Pro Arg Leu Gln Gly
                  95                 100                 105
Pro Ile Gln Asp His Leu Ala Lys Ser Pro Glu Pro Cys Leu Ser
                 110                 115                 120
Arg Pro Gly Thr Glu Pro Gly Gly Arg Arg Leu His Gln Cys Gln
                 125                 130                 135
Leu His Pro Arg Leu
                 140

<210> 18
<211> 264
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522400CD1

<400> 18
Met Glu Asn Phe Gln Lys Val Glu Lys Ile Gly Glu Gly Thr Tyr
  1                 5                  10                  15
Gly Val Val Tyr Lys Ala Arg Asn Lys Leu Thr Gly Glu Val Val
                  20                  25                  30
Ala Leu Lys Lys Ile Arg Leu Asp Thr Glu Thr Glu Gly Val Pro
                  35                  40                  45
Ser Thr Ala Ile Arg Glu Ile Ser Leu Leu Lys Glu Leu Asn His
                  50                  55                  60
Pro Asn Ile Val Lys Leu Leu Asp Val Ile His Thr Glu Asn Lys
                  65                  70                  75
Leu Tyr Leu Val Phe Glu Phe Leu His Gln Asp Leu Lys Lys Phe
                  80                  85                  90
Met Asp Ala Ser Ala Leu Thr Gly Ile Pro Leu Pro Leu Ile Lys
                  95                 100                 105
Ser Tyr Leu Phe Gln Leu Leu Gln Gly Leu Ala Phe Cys His Ser
                 110                 115                 120
His Arg Val Leu His Arg Asp Leu Lys Pro Gln Asn Leu Leu Ile
                 125                 130                 135
Asn Thr Glu Gly Ala Ile Lys Leu Ala Asp Phe Gly Leu Ala Arg
                 140                 145                 150
Ala Phe Gly Val Pro Val Arg Thr Tyr Thr His Glu Val Thr Arg
                 155                 160                 165
Arg Ala Leu Phe Pro Gly Asp Ser Glu Ile Asp Gln Leu Phe Arg
                 170                 175                 180
Ile Phe Arg Thr Leu Gly Thr Pro Asp Glu Val Val Trp Pro Gly
                 185                 190                 195
Val Thr Ser Met Pro Asp Tyr Lys Pro Ser Phe Pro Lys Trp Ala
                 200                 205                 210
Arg Gln Asp Phe Ser Lys Val Val Pro Pro Leu Asp Glu Asp Gly
                 215                 220                 225
Arg Ser Leu Leu Ser Gln Met Leu His Tyr Asp Pro Asn Lys Arg
                 230                 235                 240
Ile Ser Ala Lys Ala Ala Leu Ala His Pro Phe Phe Gln Asp Val
                 245                 250                 255
Thr Lys Pro Val Pro His Leu Arg Leu
                 260

<210> 19
<211> 459
<212> PRT
<213> Homo sapiens

<220>
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<221> misc_feature
<223> Incyte ID No: 7523524CD1

<400> 19
Met Val Gln Lys Lys Pro Ala Glu Leu Gln Gly Phe His Arg Ser
1 5 10 15
Phe Lys Gly Gln Asn Pro Phe Glu Leu Ala Phe Ser Leu Asp Gln
20 25 30
Pro Asp His Gly Asp Ser Asp Phe Gly Leu Gln Cys Ser Ala Arg
35 40 45
Pro Gly Glu Gly Pro Glu Gly Glu Glu Gly Thr Gly Gln Leu Leu
50 55 60
Ser Leu Pro Trp Gln Trp Pro Ala Pro Ala Gly Gly Trp Gly Pro
65 70 75
Ala Gly Gln Gly His Val Leu Ser Pro Leu Gly Val Pro Pro Gly
80 85 90
Thr Asp Met Pro Ala Ser Gln Pro Ile Asp Ile Pro Asp Ala Lys
95 100 105
Lys Arg Gly Lys Lys Lys Lys Arg Gly Arg Ala Thr Asp Ser Phe
110 115 120
Ser Gly Arg Phe Glu Asp Val Tyr Gln Leu Gln Glu Asp Val Leu
125 130 135
Gly Glu Gly Ala His Ala Arg Val Gln Thr Cys Ile Asn Leu Ile
140 145 150
Thr Ser Gln Glu Tyr Ala Val Lys Ile Ile Glu Lys Gln Pro Gly
155 160 165
His Ile Arg Ser Arg Val Phe Arg Glu Val Glu Met Leu Tyr Gln
170 175 180
Cys Gln Gly His Arg Asn Val Leu Glu Leu Ile Glu Phe Phe Glu
185 190 195
Glu Glu Asp Arg Phe Tyr Leu Val Phe Glu Lys Met Arg Gly Gly
200 205 210
Ser Ile Leu Ser His Ile His Lys Arg Arg His Phe Asn Glu Leu
215 220 225
Glu Ala Ser Val Val Val Gln Asp Val Ala Ser Ala Leu Asp Phe
230 235 240
Leu His Asn Lys Gly Ile Ala His Arg Asp Leu Lys Pro Glu Asn
245 250 255
Ile Leu Cys Glu His Pro Asn Gln Val Ser Pro Val Lys Ile Cys
260 265 270
Asp Phe Asp Leu Gly Ser Gly Ile Lys Leu Asn Gly Asp Cys Ser
275 280 285
Pro Ile Ser Thr Pro Glu Leu Leu Thr Pro Cys Gly Ser Ala Glu
290 295 300
Tyr Met Ala Pro Glu Val Val Glu Ala Phe Ser Glu Glu Ala Ser
305 310 315
Ile Tyr Asp Lys Arg Cys Asp Leu Trp Ser Leu Gly Val Ile Leu
320 325 330
Tyr Ile Leu Leu Ser Gly Tyr Pro Pro Phe Val Gly Arg Cys Gly
335 340 345
Ser Asp Cys Gly Trp Asp Arg Gly Glu Ala Cys Pro Ala Cys Gln
350 355 360
Asn Met Leu Phe Glu Ser Ile Gln Glu Gly Lys Tyr Glu Phe Pro
365 370 375
Asp Lys Asp Trp Ala His Ile Ser Cys Ala Ala Lys Asp Leu Ile
380 385 390
Ser Lys Leu Leu Val Arg Asp Ala Lys Gln Arg Leu Ser Ala Ala
395 400 405
Gln Val Leu Gln His Pro Trp Val Gln Gly Cys Ala Pro Glu Asn
410 415 420
Thr Leu Pro Thr Pro Met Val Leu Gln Arg Trp Asp Ser His Phe
425 430 435
Leu Leu Pro Pro His Pro Cys Arg Ile His Val Arg Pro Gly Gly

440 445 450
Leu Val Arg Thr Val Thr Val Asn Glu
455

<210> 20
<211> 537
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523542CD1

<400> 20
Met Ala Gly Ala Ser Glu Leu Gly Thr Gly Pro Gly Ala Ala Gly
1 5 10 15
Gly Asp Gly Asp Asp Ser Leu Tyr Pro Ile Ala Val Leu Ile Asp
20 25 30
Glu Leu Arg Asn Glu Asp Val Gln Pro Pro Leu Glu Asn Leu Ala
35 40 45
Thr Val Glu Glu Thr Val Val Arg Asp Lys Ala Val Glu Ser Leu
50 55 60
Arg Gln Ile Ser Gln Glu His Thr Pro Val Ala Leu Glu Ala Tyr
65 70 75
Phe Val Pro Leu Val Lys Arg Leu Ala Ser Gly Asp Trp Phe Thr
80 85 90
Ser Arg Thr Ser Ala Cys Gly Leu Phe Ser Val Cys Tyr Pro Arg
95 100 105
Ala Ser Asn Ala Val Lys Ala Glu Ile Arg Gln Gln Phe Arg Ser
110 115 120
Leu Cys Ser Asp Asp Thr Pro Met Val Arg Arg Ala Ala Ala Ser
125 130 135
Lys Leu Gly Glu Phe Ala Lys Val Leu Glu Leu Asp Ser Val Lys
140 145 150
Ser Glu Ile Val Pro Leu Phe Thr Ser Leu Ala Ser Asp Glu Gln
155 160 165
Asp Ser Val Arg Leu Leu Ala Val Glu Ala Cys Val Ser Ile Ala
170 175 180
Gln Leu Leu Ser Gln Asp Asp Leu Glu Thr Leu Val Met Pro Thr
185 190 195
Leu Arg Gln Ala Ala Glu Asp Lys Ser Trp Arg Val Arg Tyr Met
200 205 210
Val Ala Asp Arg Phe Ser Glu Leu Gln Lys Ala Met Gly Pro Lys
215 220 225
Ile Thr Leu Asn Asp Leu Ile Pro Ala Phe Gln Asn Leu Leu Lys
230 235 240
Asp Cys Glu Ala Glu Val Arg Ala Ala Ala Ala His Lys Val Lys
245 250 255
Glu Leu Gly Glu Asn Leu Pro Ile Glu Asp Arg Glu Thr Ile Ile
260 265 270
Met Asn Gln Ile Leu Pro Tyr Ile Lys Glu Leu Val Ser Asp Thr
275 280 285
Asn Gln His Val Lys Ser Ala Leu Ala Ser Val Ile Met Gly Leu
290 295 300
Ser Thr Ile Leu Gly Lys Glu Asn Thr Ile Glu His Leu Leu Pro
305 310 315
Leu Phe Leu Ala Gln Leu Lys Asp Glu Cys Pro Asp Val Arg Leu
320 325 330
Asn Ile Ile Ser Asn Leu Asp Cys Val Asn Glu Val Ile Gly Ile
335 340 345
Arg Gln Leu Ser Gln Ser Leu Leu Pro Ala Ile Val Glu Leu Ala
350 355 360
Glu Asp Ala Lys Trp Arg Val Arg Leu Ala Ile Ile Glu Tyr Met

```
                365                 370                 375
Pro Leu Leu Ala Gly Gln Leu Gly Val Glu Phe Phe Asp Glu Lys
                380                 385                 390
Leu Asn Ser Leu Cys Met Ala Trp Leu Val Asp His Val Tyr Ala
                395                 400                 405
Ile Arg Glu Ala Ala Thr Asn Asn Leu Met Lys Leu Val Gln Lys
                410                 415                 420
Phe Gly Thr Glu Trp Ala Gln Asn Thr Ile Val Pro Lys Val Leu
                425                 430                 435
Val Met Ala Asn Asp Pro Asn Tyr Leu His Arg Met Thr Thr Leu
                440                 445                 450
Phe Cys Ile Asn Ala Leu Ser Glu Ala Cys Gly Gln Glu Ile Thr
                455                 460                 465
Thr Lys Gln Met Leu Pro Ile Val Leu Lys Met Ala Gly Asp Gln
                470                 475                 480
Val Ala Asn Val Arg Phe Asn Val Ala Lys Ser Leu Gln Lys Ile
                485                 490                 495
Gly Pro Ile Leu Asp Thr Asn Ala Leu Gln Gly Glu Val Lys Pro
                500                 505                 510
Val Leu Gln Lys Leu Gly Gln Asp Glu Asp Met Asp Val Lys Tyr
                515                 520                 525
Phe Ala Gln Glu Ala Ile Ser Val Leu Ala Leu Ala
                530                 535
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<210> 21
<211> 586
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523546CD1

<400> 21

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Met Ser Arg Glu Ser Asp Val Glu Ala Gln Gln Ser His Gly Ser
  1                 5                  10                  15
Ser Ala Cys Ser Gln Pro His Gly Ser Val Thr Gln Ser Gln Gly
                 20                  25                  30
Ser Ser Ser Gln Ser Gln Gly Ile Ser Ser Ser Ser Thr Ser Thr
                 35                  40                  45
Met Pro Asn Ser Ser Gln Ser Ser His Ser Ser Ser Gly Thr Leu
                 50                  55                  60
Ser Ser Leu Glu Thr Val Ser Thr Gln Glu Leu Tyr Ser Ile Pro
                 65                  70                  75
Glu Asp Gln Glu Pro Glu Asp Gln Glu Pro Glu Glu Pro Thr Pro
                 80                  85                  90
Ala Pro Trp Ala Arg Leu Trp Ala Leu Gln Asp Gly Phe Ala Asn
                 95                 100                 105
Leu Glu Thr Glu Ser Gly His Val Thr Gln Ser Asp Leu Glu Leu
                110                 115                 120
Leu Leu Ser Ser Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly
                125                 130                 135
Ile Arg Gly Val Arg His His Pro Arg Pro Val Cys Ser Leu Lys
                140                 145                 150
Cys Val Asn Asp Asn Tyr Trp Phe Gly Arg Asp Lys Ser Cys Glu
                155                 160                 165
Tyr Cys Phe Asp Glu Pro Leu Leu Lys Arg Thr Asp Lys Tyr Arg
                170                 175                 180
Thr Tyr Ser Lys Lys His Phe Arg Ile Phe Arg Glu Val Gly Pro
                185                 190                 195
Lys Asn Ser Tyr Ile Ala Tyr Ile Glu Asp His Ser Gly Asn Gly
                200                 205                 210
Thr Phe Val Asn Thr Glu Leu Val Gly Lys Gly Lys Arg Arg Pro
```

215 220 225
Leu Asn Asn Asn Ser Glu Ile Ala Leu Ser Leu Ser Arg Asn Lys
230 235 240
Val Phe Val Phe Phe Asp Leu Thr Val Asp Asp Gln Ser Val Tyr
245 250 255
Pro Lys Ala Leu Arg Asp Glu Tyr Ile Met Ser Lys Thr Leu Gly
260 265 270
Ser Gly Ala Cys Gly Glu Val Lys Leu Ala Phe Glu Arg Lys Thr
275 280 285
Cys Lys Lys Val Ala Ile Lys Ile Ile Ser Lys Arg Lys Phe Ala
290 295 300
Ile Gly Ser Ala Arg Glu Ala Asp Pro Ala Leu Asn Val Glu Thr
305 310 315
Glu Ile Glu Ile Leu Lys Lys Leu Asn His Pro Cys Ile Ile Lys
320 325 330
Ile Lys Asn Phe Phe Asp Ala Glu Asp Tyr Tyr Ile Val Leu Glu
335 340 345
Leu Met Glu Gly Gly Glu Leu Phe Asp Lys Val Val Gly Asn Lys
350 355 360
Arg Leu Lys Glu Ala Thr Cys Lys Leu Tyr Phe Tyr Gln Met Leu
365 370 375
Leu Ala Val Gln Tyr Leu His Glu Asn Gly Ile Ile His Arg Asp
380 385 390
Leu Lys Pro Glu Asn Val Leu Leu Ser Ser Gln Glu Glu Asp Cys
395 400 405
Leu Ile Lys Ile Thr Asp Phe Gly His Ser Lys Ile Leu Gly Glu
410 415 420
Thr Ser Leu Met Arg Thr Leu Cys Gly Thr Pro Thr Tyr Leu Ala
425 430 435
Pro Glu Val Leu Val Ser Val Gly Thr Ala Gly Tyr Asn Arg Ala
440 445 450
Val Asp Cys Trp Ser Leu Gly Val Ile Leu Phe Ile Cys Leu Ser
455 460 465
Gly Tyr Pro Pro Phe Ser Glu His Arg Thr Gln Val Ser Leu Lys
470 475 480
Asp Gln Ile Thr Ser Gly Lys Tyr Asn Phe Ile Pro Glu Val Trp
485 490 495
Ala Glu Val Ser Glu Lys Ala Leu Asp Leu Val Lys Lys Leu Leu
500 505 510
Val Val Asp Pro Lys Ala Arg Phe Thr Thr Glu Glu Ala Leu Arg
515 520 525
His Pro Trp Leu Gln Asp Glu Asp Met Lys Arg Lys Phe Gln Asp
530 535 540
Leu Leu Ser Glu Glu Asn Glu Ser Thr Ala Leu Pro Gln Val Leu
545 550 555
Ala Gln Pro Ser Thr Ser Arg Lys Arg Pro Arg Glu Gly Glu Ala
560 565 570
Glu Gly Ala Glu Thr Thr Lys Arg Pro Ala Val Cys Ala Ala Val
575 580 585
Leu

<210> 22
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523552CD1

<400> 22
Met Ser Gly Pro Arg Ala Gly Phe Tyr Arg Gln Glu Leu Asn Lys

```
  1               5                  10                  15
Thr Val Trp Glu Val Pro Gln Arg Leu Gln Gly Leu Arg Pro Val
                20                  25                  30
Gly Ser Gly Ala Tyr Gly Ser Val Cys Ser Ala Tyr Asp Ala Arg
                35                  40                  45
Leu Arg Gln Lys Val Ala Val Lys Lys Leu Ser Arg Pro Phe Gln
                50                  55                  60
Ser Leu Ile His Ala Arg Arg Thr Tyr Arg Glu Leu Arg Leu Leu
                65                  70                  75
Lys His Leu Lys His Glu Asn Val Leu Gly Asp His Pro Asp Gly
                80                  85                  90
Arg Arg Pro Glu Gln His Arg Gln Val Pro Gly Ala Glu Arg Arg
                95                 100                 105
Ala Arg Ser Ile Pro Gly Leu Pro Ala Ala Ala Arg Ala Glu Val
               110                 115                 120
His Pro Leu Gly Arg Asp His Pro Pro Gly Pro Glu Ala Gln Gln
               125                 130                 135
Arg Gly Cys Glu Arg Gly Leu
               140
```

<210> 23
<211> 325
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523564CD1

<400> 23

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Met Ser Gly Arg Arg Phe His Leu Ser Thr Thr Asp Arg Val Ile
  1               5                  10                  15
Lys Ala Val Pro Phe Pro Pro Thr Gln Arg Leu Thr Phe Lys Glu
                20                  25                  30
Val Phe Glu Asn Gly Lys Pro Lys Val Asp Val Leu Lys Asn His
                35                  40                  45
Leu Val Lys Glu Gly Arg Leu Glu Glu Glu Val Ala Leu Lys Ile
                50                  55                  60
Ile Asn Asp Gly Ala Ala Ile Leu Arg Gln Glu Lys Thr Met Ile
                65                  70                  75
Glu Val Asp Ala Pro Ile Thr Val Cys Gly Asp Ile His Gly Gln
                80                  85                  90
Phe Phe Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ser
                95                 100                 105
Asn Thr Arg Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr
               110                 115                 120
Phe Ser Ile Glu Cys Val Leu Tyr Leu Trp Ser Leu Lys Ile Asn
               125                 130                 135
His Pro Lys Thr Leu Phe Leu Leu Arg Gly Asn His Glu Cys Arg
               140                 145                 150
His Leu Thr Asp Tyr Phe Thr Phe Lys Gln Glu Cys Arg Ile Lys
               155                 160                 165
Tyr Ser Glu Gln Val Tyr Asp Ala Cys Met Glu Thr Phe Asp Cys
               170                 175                 180
Leu Pro Leu Ala Ala Leu Leu Asn Gln Gln Phe Leu Cys Val His
               185                 190                 195
Gly Gly Met Ser Pro Glu Val Thr Ser Leu Asp Asp Ile Arg Lys
               200                 205                 210
Leu Asp Arg Phe Thr Glu Pro Pro Ala Phe Gly Pro Val Cys Asp
               215                 220                 225
Leu Leu Trp Ser Asp Pro Ser Glu Asp Tyr Gly Asn Glu Lys Thr
               230                 235                 240
Leu Glu His Tyr Thr His Asn Thr Val Arg Gly Cys Ser Tyr Phe
```

```
                245                 250                 255
Tyr Ser Tyr Pro Ala Val Cys Glu Phe Leu Gln Asn Asn Asn Leu
                260                 265                 270
Leu Ser Ile Ile Arg Ala His Glu Ala Gln Asp Ala Gly Tyr Arg
                275                 280                 285
Met Tyr Arg Lys Ser Gln Ala Thr Gly Phe Pro Ser Leu Ile Thr
                290                 295                 300
Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Glu
                305                 310                 315
Ser Ala Thr His Ser Phe Asp Tyr Pro Gln
                320                 325
```

<210> 24
<211> 488
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523572CD1

<400> 24

```
Met Ser Gly Arg Arg Phe His Leu Ser Thr Thr Asp Arg Val Ile
  1               5                  10                  15
Lys Ala Val Pro Phe Pro Pro Thr Gln Arg Leu Thr Phe Lys Glu
                20                  25                  30
Val Phe Glu Asn Gly Lys Pro Lys Val Asp Val Leu Lys Asn His
                35                  40                  45
Leu Val Lys Glu Gly Arg Leu Glu Glu Glu Val Ala Leu Lys Ile
                50                  55                  60
Ile Asn Asp Gly Ala Ala Ile Leu Arg Gln Glu Lys Thr Met Ile
                65                  70                  75
Glu Val Asp Ala Pro Ile Thr Val Cys Gly Asp Ile His Gly Gln
                80                  85                  90
Phe Phe Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ser
                95                 100                 105
Asn Thr Arg Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr
               110                 115                 120
Phe Ser Ile Glu Cys Val Leu Tyr Leu Trp Ser Leu Lys Ile Asn
               125                 130                 135
His Pro Lys Thr Leu Phe Leu Leu Arg Gly Asn His Glu Cys Arg
               140                 145                 150
His Leu Thr Asp Tyr Phe Thr Phe Lys Gln Glu Cys Arg Ile Lys
               155                 160                 165
Cys Ser Glu Gln Val Tyr Asp Ala Cys Met Glu Thr Phe Asp Cys
               170                 175                 180
Leu Pro Leu Ala Ala Leu Leu Asn Gln Gln Phe Leu Cys Val His
               185                 190                 195
Gly Gly Met Ser Pro Glu Ile Thr Ser Leu Asp Asp Ile Arg Lys
               200                 205                 210
Leu Asp Arg Phe Thr Glu Pro Pro Ala Phe Gly Pro Val Cys Asp
               215                 220                 225
Leu Leu Trp Ser Asp Pro Ser Glu Asp Tyr Gly Asn Glu Lys Thr
               230                 235                 240
Leu Glu His Tyr Thr His Asn Thr Val Arg Gly Cys Ser Tyr Phe
               245                 250                 255
Tyr Ser Tyr Pro Ala Val Cys Glu Phe Leu Gln Asn Asn Asn Leu
               260                 265                 270
Leu Ser Ile Ile Arg Ala His Glu Ala Gln Asp Ala Gly Tyr Arg
               275                 280                 285
Met Tyr Arg Lys Ser Gln Ala Thr Gly Phe Pro Ser Leu Ile Thr
               290                 295                 300
Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala
```

```
                305                 310                 315
Ala Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe
                320                 325                 330
Asn Cys Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val
                335                 340                 345
Phe Thr Trp Ser Leu Pro Phe Val Gly Glu Lys Gly Ser Thr Thr
                350                 355                 360
Val Arg Lys Glu Ile Ile Arg Asn Lys Ile Arg Ala Val Gly Lys
                365                 370                 375
Met Ala Arg Val Phe Ser Ile Leu Arg Gln Glu Ser Glu Ser Val
                380                 385                 390
Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Thr Leu Pro Leu Gly
                395                 400                 405
Val Leu Ser Gly Gly Lys Gln Thr Ile Glu Thr Ala Thr Val Glu
                410                 415                 420
Ala Val Glu Ala Arg Glu Ala Ile Arg Gly Phe Ser Leu Gln His
                425                 430                 435
Lys Ile Arg Ser Phe Glu Glu Ala Arg Gly Leu Asp Arg Ile Asn
                440                 445                 450
Glu Arg Met Pro Pro Arg Lys Asp Ser Ile His Ala Gly Gly Pro
                455                 460                 465
Met Lys Ser Val Thr Ser Ala His Ser His Ala Ala His Arg Ser
                470                 475                 480
Asp Gln Gly Lys Lys Ala His Ser
                485
```

<210> 25
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523586CD1

<400> 25

```
Met Ser Glu Asp Ser Ser Ala Leu Pro Trp Ser Ile Asn Arg Asp
  1                 5                  10                  15
Asp Tyr Glu Leu Gln Glu Val Ile Gly Ser Gly Ala Thr Ala Val
                20                  25                  30
Val Gln Ala Ala Tyr Cys Ala Pro Lys Lys Glu Lys Val Ala Ile
                35                  40                  45
Lys Arg Ile Asn Leu Glu Lys Cys Gln Thr Ser Met Asp Glu Leu
                50                  55                  60
Leu Lys Glu Ile Gln Ala Met Ser Gln Cys His His Pro Asn Ile
                65                  70                  75
Val Ser Tyr Tyr Thr Ser Phe Val Val Lys Asp Glu Leu Trp Leu
                80                  85                  90
Val Met Lys Leu Leu Ser Gly Val Thr His Trp Arg Asn Trp Ile
                95                 100                 105
Ala Leu Leu Lys Ala Leu Phe Ile
               110
```

<210> 26
<211> 902
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523617CD1

<400> 26

```
Met Ala Asn Phe Gln Glu His Leu Ser Cys Ser Ser Ser Pro His
 1               5                  10                  15
Leu Pro Phe Ser Glu Ser Lys Thr Phe Asn Gly Leu Gln Asp Glu
            20                  25                  30
Leu Thr Ala Met Gly Asn His Pro Ser Pro Lys Leu Leu Glu Asp
        35                  40                  45
Gln Gln Glu Lys Gly Met Val Arg Thr Glu Leu Ile Glu Ser Val
    50                  55                  60
His Ser Pro Val Thr Thr Thr Val Leu Thr Ser Val Ser Glu Asp
65                  70                  75
Ser Arg Asp Gln Phe Glu Asn Ser Val Leu Gln Leu Arg Glu His
                80                  85                  90
Asp Glu Ser Glu Thr Ala Val Ser Gln Gly Asn Ser Asn Thr Val
            95                  100                 105
Asp Gly Glu Ser Thr Ser Gly Thr Glu Asp Ile Lys Ile Gln Phe
        110                 115                 120
Ser Arg Ser Gly Ser Gly Ser Gly Gly Phe Leu Glu Gly Leu Phe
    125                 130                 135
Gly Cys Leu Arg Pro Val Trp Asn Ile Ile Gly Lys Ala Tyr Ser
140                 145                 150
Thr Asp Tyr Lys Leu Gln Gln Gln Asp Thr Trp Glu Val Pro Phe
155                 160                 165
Glu Glu Ile Ser Glu Leu Gln Trp Leu Gly Ser Gly Ala Gln Gly
            170                 175                 180
Ala Val Phe Leu Gly Lys Phe Arg Ala Glu Glu Val Ala Ile Lys
        185                 190                 195
Lys Val Arg Glu Gln Asn Glu Thr Asp Ile Lys His Leu Arg Lys
    200                 205                 210
Leu Lys His Pro Asn Ile Ile Ala Phe Asn Val Leu Val Thr His
215                 220                 225
Thr Asp Ala Val Lys Ile Ser Asp Phe Gly Thr Ser Lys Glu Leu
            230                 235                 240
Ser Asp Lys Ser Thr Lys Met Ser Phe Ala Gly Thr Val Ala Trp
        245                 250                 255
Met Ala Pro Glu Val Ile Arg Asn Glu Pro Val Ser Glu Lys Val
    260                 265                 270
Asp Ile Trp Ser Phe Gly Val Val Leu Arg Glu Leu Leu Thr Gly
275                 280                 285
Glu Ile Pro Tyr Lys Asp Val Asp Ser Ser Ala Ile Ile Trp Gly
            290                 295                 300
Val Gly Ser Asn Ser Leu His Leu Pro Val Pro Ser Thr Cys Pro
        305                 310                 315
Asp Gly Phe Lys Ile Leu Met Lys Gln Thr Trp Gln Ser Lys Pro
    320                 325                 330
Arg Asn Arg Pro Ser Phe Arg Gln Thr Leu Met His Leu Asp Ile
335                 340                 345
Ala Ser Ala Asp Val Leu Ala Thr Pro Gln Glu Thr Tyr Phe Lys
            350                 355                 360
Ser Gln Ala Glu Trp Arg Glu Glu Val Lys Lys His Phe Glu Lys
        365                 370                 375
Ile Lys Ser Glu Gly Thr Cys Ile His Arg Leu Asp Glu Glu Leu
    380                 385                 390
Ile Arg Arg Arg Arg Glu Glu Leu Arg His Ala Leu Asp Ile Arg
395                 400                 405
Glu His Tyr Glu Arg Lys Leu Glu Arg Ala Asn Asn Leu Tyr Met
            410                 415                 420
Glu Leu Ser Ala Ile Met Leu Gln Leu Glu Met Arg Glu Lys Glu
        425                 430                 435
Leu Ile Lys Arg Glu Gln Ala Val Glu Lys Lys Tyr Pro Gly Thr
    440                 445                 450
Tyr Lys Arg His Pro Val Arg Pro Ile Ile His Pro Asn Ala Met
455                 460                 465
Glu Lys Leu Met Lys Arg Lys Gly Val Pro His Lys Ser Gly Met
```

```
                470                 475                 480
Gln Thr Lys Arg Pro Asp Leu Leu Arg Ser Glu Gly Ile Pro Thr
                485                 490                 495
Thr Glu Val Ala Pro Thr Ala Ser Pro Leu Ser Gly Ser Pro Lys
                500                 505                 510
Met Ser Thr Ser Ser Ser Lys Ser Arg Tyr Arg Ser Lys Pro Arg
                515                 520                 525
His Arg Arg Gly Asn Ser Arg Gly Ser His Ser Asp Phe Ala Ala
                530                 535                 540
Ile Leu Lys Asn Gln Pro Ala Gln Glu Asn Ser Pro His Pro Thr
                545                 550                 555
Tyr Leu His Gln Ala Gln Ser Gln Tyr Pro Ser Leu His His His
                560                 565                 570
Asn Ser Leu Gln Gln Gln Tyr Gln Gln Pro Pro Pro Ala Met Ser
                575                 580                 585
Gln Ser His His Pro Arg Leu Asn Met His Gly Gln Asp Ile Ala
                590                 595                 600
Thr Cys Ala Asn Asn Leu Arg Tyr Phe Gly Pro Ala Ala Ala Leu
                605                 610                 615
Arg Ser Pro Leu Ser Asn His Ala Gln Arg Gln Leu Pro Gly Ser
                620                 625                 630
Ser Pro Asp Leu Ile Ser Thr Ala Met Ala Ala Asp Cys Trp Arg
                635                 640                 645
Ser Ser Glu Pro Asp Lys Gly Gln Ala Gly Pro Trp Gly Cys Cys
                650                 655                 660
Gln Ala Asp Ala Tyr Asp Pro Cys Leu Gln Cys Arg Pro Glu Gln
                665                 670                 675
Tyr Gly Ser Leu Asp Ile Pro Ser Ala Glu Pro Val Gly Arg Ser
                680                 685                 690
Pro Asp Leu Ser Lys Ser Pro Ala His Asn Pro Leu Leu Glu Asn
                695                 700                 705
Ala Gln Ser Ser Glu Lys Thr Glu Glu Asn Glu Phe Ser Gly Cys
                710                 715                 720
Arg Ser Glu Ser Ser Leu Gly Thr Ser His Leu Gly Thr Pro Pro
                725                 730                 735
Ala Leu Pro Arg Lys Thr Arg Pro Leu Gln Lys Ser Gly Asp Asp
                740                 745                 750
Ser Ser Glu Glu Glu Glu Gly Glu Val Asp Ser Glu Val Glu Phe
                755                 760                 765
Pro Arg Arg Gln Arg Pro His Arg Cys Ile Ser Ser Cys Gln Ser
                770                 775                 780
Tyr Ser Thr Phe Ser Ser Glu Asn Phe Ser Val Ser Asp Gly Glu
                785                 790                 795
Glu Gly Asn Thr Ser Asp His Ser Asn Ser Pro Asp Glu Leu Ala
                800                 805                 810
Asp Lys Leu Glu Asp Arg Leu Ala Glu Lys Leu Asp Asp Leu Leu
                815                 820                 825
Ser Gln Thr Pro Glu Ile Pro Ile Asp Ile Ser Ser His Ser Asp
                830                 835                 840
Gly Leu Ser Asp Lys Glu Cys Ala Val Arg Arg Val Lys Thr Gln
                845                 850                 855
Met Ser Leu Gly Lys Leu Cys Val Glu Glu Arg Gly Tyr Glu Asn
                860                 865                 870
Pro Met Gln Phe Glu Glu Ser Asp Cys Asp Ser Ser Asp Gly Glu
                875                 880                 885
Cys Ser Asp Ala Thr Val Arg Thr Asn Lys His Tyr Ser Ser Ala
                890                 895                 900
Thr Trp
```

<210> 27
<211> 458
<212> PRT

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523625CD1

<400> 27

```
Met Lys Asp Tyr Asp Glu Leu Leu Lys Tyr Tyr Glu Leu His Glu
  1               5                  10                  15
Thr Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His
             20                  25                  30
Ile Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn
             35                  40                  45
Thr Leu Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala
             50                  55                  60
Leu Lys Asn Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val
             65                  70                  75
Leu Glu Thr Ala Asn Lys Ile Phe Met Val Leu Glu Glu Asn Leu
             80                  85                  90
Leu Phe Asp Glu Tyr His Lys Leu Lys Leu Ile Asp Phe Gly Leu
             95                 100                 105
Cys Ala Lys Pro Lys Gly Asn Lys Asp Tyr His Leu Gln Thr Cys
            110                 115                 120
Cys Gly Ser Leu Ala Tyr Ala Ala Pro Glu Leu Ile Gln Gly Lys
            125                 130                 135
Ser Tyr Leu Gly Ser Glu Ala Asp Val Trp Ser Met Gly Ile Leu
            140                 145                 150
Leu Tyr Val Leu Met Cys Gly Phe Leu Pro Phe Asp Asp Asp Asn
            155                 160                 165
Val Met Ala Leu Tyr Lys Lys Ile Met Arg Gly Lys Tyr Asp Val
            170                 175                 180
Pro Lys Trp Leu Ser Pro Ser Ser Ile Leu Leu Leu Gln Gln Met
            185                 190                 195
Leu Gln Val Asp Pro Lys Lys Arg Ile Ser Met Lys Asn Leu Leu
            200                 205                 210
Asn His Pro Trp Ile Met Gln Asp Tyr Asn Tyr Pro Val Glu Trp
            215                 220                 225
Gln Ser Lys Asn Pro Phe Ile His Leu Asp Asp Asp Cys Val Thr
            230                 235                 240
Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr Met Glu Asp
            245                 250                 255
Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr Tyr Leu
            260                 265                 270
Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu Arg
            275                 280                 285
Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
            290                 295                 300
Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser
            305                 310                 315
Asp Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu
            320                 325                 330
Asp Asp Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe
            335                 340                 345
Thr Lys Tyr Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu
            350                 355                 360
Thr Pro Ala Leu Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys
            365                 370                 375
Glu Asn Val Tyr Thr Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr
            380                 385                 390
Phe Met Phe Pro Glu Pro Lys Thr Pro Val Asn Lys Asn Gln His
            395                 400                 405
Lys Arg Glu Ile Leu Thr Thr Pro Asn Arg Tyr Thr Thr Pro Ser
            410                 415                 420
```

```
Lys Ala Arg Asn Gln Cys Leu Lys Glu Thr Pro Ile Lys Ile Pro
                425                 430                 435
Val Asn Ser Thr Gly Thr Asp Lys Leu Met Thr Gly Val Ile Ser
                440                 445                 450
Pro Glu Arg Arg Phe Thr Ile Met
                455

<210> 28
<211> 597
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523650CD1

<400> 28
Met Gln Ser Thr Ala Asn Tyr Leu Trp His Thr Asp Asp Leu Leu
  1                 5                  10                  15
Gly Gln Gly Ala Thr Ala Ser Val Tyr Lys Ala Arg Asn Lys Lys
                 20                  25                  30
Ser Gly Glu Leu Val Ala Val Lys Val Phe Asn Thr Thr Ser Tyr
                 35                  40                  45
Leu Arg Pro Arg Glu Val Gln Val Arg Glu Phe Glu Val Leu Arg
                 50                  55                  60
Lys Leu Asn His Gln Asn Ile Val Lys Leu Phe Ala Val Glu Glu
                 65                  70                  75
Thr Gly Gly Ser Arg Gln Lys Val Leu Val Met Glu Tyr Cys Ser
                 80                  85                  90
Ser Gly Ser Leu Leu Ser Val Leu Glu Ser Pro Glu Asn Ala Phe
                 95                 100                 105
Gly Leu Pro Glu Asp Glu Phe Leu Val Val Leu Arg Cys Val Val
                110                 115                 120
Ala Gly Met Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp
                125                 130                 135
Ile Lys Pro Gly Asn Ile Met Arg Leu Val Gly Glu Glu Gly Gln
                140                 145                 150
Ser Ile Tyr Lys Leu Thr Asp Phe Gly Ala Ala Arg Glu Leu Asp
                155                 160                 165
Asp Asp Glu Lys Phe Val Ser Val Tyr Gly Thr Glu Glu Tyr Leu
                170                 175                 180
His Pro Asp Met Tyr Glu Arg Ala Val Leu Arg Lys Pro Gln Gln
                185                 190                 195
Lys Ala Phe Gly Val Thr Val Asp Leu Trp Ser Ile Gly Val Thr
                200                 205                 210
Leu Tyr Arg Ala Ala Thr Gly Ser Leu Pro Phe Ile Pro Phe Gly
                215                 220                 225
Gly Pro Arg Arg Asn Lys Glu Ile Met Tyr Arg Ile Thr Thr Glu
                230                 235                 240
Lys Pro Ala Gly Ala Ile Ala Gly Ala Gln Arg Arg Glu Asn Gly
                245                 250                 255
Pro Leu Glu Trp Ser Tyr Thr Leu Pro Ile Thr Cys Gln Leu Ser
                260                 265                 270
Leu Ile Ala Ile Phe Gln Glu Ala Val His Lys Gln Thr Ser Val
                275                 280                 285
Ala Pro Arg His Gln Glu Tyr Leu Phe Glu Gly His Leu Cys Val
                290                 295                 300
Leu Glu Pro Ser Val Ser Ala Gln His Ile Ala His Thr Thr Ala
                305                 310                 315
Ser Ser Pro Leu Thr Leu Phe Ser Thr Ala Ile Pro Lys Gly Leu
                320                 325                 330
Ala Phe Arg Asp Pro Ala Leu Asp Val Pro Lys Phe Val Pro Lys
                335                 340                 345
```

```
Val Asp Leu Gln Ala Asp Tyr Asn Thr Ala Lys Gly Val Leu Gly
                350                 355                 360
Ala Gly Tyr Gln Ala Leu Arg Leu Ala Arg Ala Leu Leu Asp Gly
                365                 370                 375
Gln Glu Leu Met Phe Arg Gly Leu His Trp Val Met Glu Val Leu
                380                 385                 390
Gln Ala Thr Cys Arg Arg Thr Leu Glu Val Ala Arg Thr Thr Leu
                395                 400                 405
Leu Tyr Leu Ser Ser Ser Leu Gly Thr Glu Arg Phe Ser Ser Val
                410                 415                 420
Ala Gly Thr Pro Glu Ile Gln Glu Leu Lys Ala Ala Ala Glu Leu
                425                 430                 435
Arg Ser Arg Leu Arg Thr Leu Ala Glu Val Leu Ser Arg Cys Ser
                440                 445                 450
Gln Asn Ile Thr Glu Thr Gln Glu Ser Leu Ser Ser Leu Asn Arg
                455                 460                 465
Glu Leu Val Lys Ser Arg Asp Gln Val His Glu Asp Arg Ser Ile
                470                 475                 480
Gln Gln Ile Gln Cys Cys Leu Asp Lys Met Asn Phe Ile Tyr Lys
                485                 490                 495
Gln Phe Lys Lys Ser Arg Met Arg Pro Gly Leu Gly Tyr Asn Glu
                500                 505                 510
Glu Gln Ile His Lys Leu Asp Lys Val Asn Phe Ser Gln Leu Ala
                515                 520                 525
Lys Arg Leu Leu Gln Val Phe Gln Glu Glu Cys Val Gln Lys Tyr
                530                 535                 540
Gln Ala Ser Leu Val Thr His Gly Lys Arg Met Arg Val Val His
                545                 550                 555
Glu Thr Arg Asn His Leu Arg Leu Val Gly Cys Ser Val Ala Ala
                560                 565                 570
Cys Asn Thr Glu Ala Gln Gly Val Gln Glu Ser Leu Ser Lys His
                575                 580                 585
Ala Arg Ala Leu Arg Gly Asp Glu Ala Ala Gly Ile
                590                 595

<210> 29
<211> 330
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523665CD1

<400> 29
Met Asn Ser Ser Pro Ala Gly Thr Pro Ser Pro Gln Pro Ser Arg
  1               5                  10                  15
Ala Asn Gly Asn Ile Asn Leu Gly Pro Ser Ala Asn Pro Asn Ala
                20                  25                  30
Gln Pro Thr Asp Phe Asp Phe Leu Lys Val Ile Gly Lys Gly Asn
                35                  40                  45
Tyr Gly Lys Val Leu Leu Ala Lys Arg Lys Pro Asp Gly Ala Phe
                50                  55                  60
Tyr Ala Val Lys Val Leu Gln Lys Lys Ser Ile Leu Lys Lys Lys
                65                  70                  75
Glu Gln Ser His Ile Met Ala Glu Arg Ser Val Leu Leu Lys Asn
                80                  85                  90
Val Arg Arg Pro Phe Leu Val Gly Leu Arg Tyr Ser Phe Gln Thr
                95                 100                 105
Pro Glu Lys Leu Tyr Phe Val Leu Asp Tyr Val Asn Gly Gly Glu
                110                 115                 120
Leu Phe Phe His Leu Gln Arg Glu Arg Arg Phe Leu Glu Pro Arg
                125                 130                 135
```

```
Ala Arg Phe Tyr Ala Ala Glu Val Ala Ser Ala Ile Gly Tyr Leu
                140                 145                 150
His Ser Leu Asn Ile Ile Tyr Arg Asp Leu Lys Pro Glu Asn Ile
                155                 160                 165
Leu Leu Asp Cys Gln Gly His Val Val Leu Thr Asp Phe Gly Leu
                170                 175                 180
Cys Lys Glu Gly Val Glu Pro Glu Asp Thr Thr Ser Thr Phe Cys
                185                 190                 195
Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys Glu Pro
                200                 205                 210
Tyr Asp Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr
                215                 220                 225
Glu Met Leu His Gly Leu Pro Pro Phe Tyr Ser Gln Asp Val Ser
                230                 235                 240
Gln Met Tyr Glu Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly
                245                 250                 255
Gly Arg Thr Val Ala Ala Cys Asp Leu Leu Gln Ser Leu Leu His
                260                 265                 270
Lys Asp Gln Arg Gln Arg Leu Gly Ser Lys Ala Asp Phe Leu Glu
                275                 280                 285
Ile Lys Asn His Val Phe Phe Ser Pro Ile Asn Trp Asp Asp Leu
                290                 295                 300
Tyr His Lys Arg Leu Thr Pro Pro Phe Asn Pro Asn Val Ile Gly
                305                 310                 315
Tyr Thr Arg Ala Arg His Gln Lys Ser Phe Phe Ser Leu Gly Phe
                320                 325                 330
```

<210> 30
<211> 335
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523672CD1

<400> 30

```
Met Asp Arg Met Lys Lys Ile Lys Arg Gln Leu Ser Met Thr Leu
  1                 5                  10                  15
Arg Gly Gly Arg Gly Ile Asp Lys Thr Asn Gly Ala Pro Glu Gln
                 20                  25                  30
Ile Gly Leu Asp Glu Ser Gly Gly Gly Gly Gly Ser Asp Pro Gly
                 35                  40                  45
Glu Ala Pro Thr Arg Ala Ala Pro Gly Glu Leu Arg Ser Ala Arg
                 50                  55                  60
Gly Pro Leu Ser Ser Ala Pro Glu Ile Val His Glu Asp Leu Lys
                 65                  70                  75
Met Gly Ser Asp Gly Glu Ser Asp Gln Ala Ser Ala Thr Ser Ser
                 80                  85                  90
Asp Glu Val Gln Ser Pro Val Arg Val Arg Met Arg Asn His Pro
                 95                 100                 105
Pro Arg Lys Ile Ser Thr Glu Asp Ile Asn Lys Arg Leu Ser Leu
                110                 115                 120
Pro Ala Asp Ile Arg Leu Pro Glu Gly Tyr Leu Glu Lys Leu Thr
                125                 130                 135
Leu Asn Ser Pro Ile Phe Asp Lys Pro Leu Ser Arg Arg Leu Arg
                140                 145                 150
Arg Val Ser Leu Ser Glu Ile Gly Phe Gly Lys Leu Glu Thr Tyr
                155                 160                 165
Ile Lys Leu Asp Lys Leu Gly Glu Gly Thr Tyr Ala Thr Val Tyr
                170                 175                 180
Lys Gly Lys Ser Lys Leu Thr Asp Asn Leu Val Ala Leu Lys Glu
```

```
                185                 190                 195
Ile Arg Leu Glu His Glu Glu Gly Ala Pro Cys Thr Ala Ile Arg
                200                 205                 210
Glu Val Ser Leu Leu Lys Asp Leu Lys His Ala Asn Ile Val Thr
                215                 220                 225
Leu His Asp Ile Ile His Thr Glu Lys Ser Leu Thr Leu Val Phe
                230                 235                 240
Glu Tyr Leu Asp Lys Asp Leu Lys Gln Tyr Leu Asp Asp Cys Gly
                245                 250                 255
Asn Ile Ile Asn Met His Asn Val Lys Val Gly Val Gly Gln Glu
                260                 265                 270
Ala Gly Ala Gln Gly Gly Pro His Ser Pro Thr Pro Thr His Lys
                275                 280                 285
Ser Pro Arg Asn Gly Leu Phe Pro Leu Ala Phe Phe Ala Arg Ser
                290                 295                 300
Pro Trp Arg Ala Leu Gly Pro Cys Pro Leu Leu Cys Asp Lys Ala
                305                 310                 315
Leu Gly Leu Val Ser Val Phe Gly Arg Gly Ala Val Pro Ala Gly
                320                 325                 330
Gly Arg Ala Ser Gly
                335
```

<210> 31
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523687CD1

<400> 31

```
Met Asp Val Val Asp Pro Asp Ile Phe Asn Arg Asp Pro Arg Asp
  1                 5                  10                  15
His Tyr Asp Leu Leu Gln Arg Leu Gly Gly Gly Thr Tyr Gly Glu
                 20                  25                  30
Val Phe Lys Ala Arg Asp Lys Val Ser Gly Asp Leu Val Ala Leu
                 35                  40                  45
Lys Met Val Lys Met Glu Pro Asp Asp Asp Val Ser Thr Leu Gln
                 50                  55                  60
Lys Glu Ile Leu Ile Leu Lys Thr Cys Arg His Ala Asn Ile Val
                 65                  70                  75
Ala Tyr His Gly Ser Tyr Leu Trp Leu Gln Lys Leu Trp Ile Cys
                 80                  85                  90
Met Glu Phe Cys Gly Ala Gly Ser Leu Gln Asp Ile Tyr Gln Gly
                 95                 100                 105
Thr Gly Leu Phe Ala Leu Thr Glu Glu Asp Thr Gln Gly His Gln
                110                 115                 120
Gly Ser
```

<210> 32
<211> 532
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523689CD1

<400> 32

```
Met Asp Glu Gln Glu Ala Leu Asn Ser Ile Met Asn Asp Leu Val
  1                 5                  10                  15
```

```
Ala Leu Gln Met Asn Arg Arg His Arg Met Pro Gly Tyr Glu Thr
                20                  25                  30
Met Lys Asn Lys Asp Thr Gly His Ser Asn Arg Gln Lys Lys His
            35                  40                  45
Asn Ser Ser Ser Ser Ala Leu Leu Asn Ser Pro Thr Val Thr Thr
        50                  55                  60
Ser Ser Cys Ala Gly Ala Ser Glu Lys Lys Lys Phe Leu Ser Asp
    65                  70                  75
Val Arg Ile Lys Phe Glu His Asn Gly Glu Arg Arg Ile Ile Ala
                80                  85                  90
Phe Ser Arg Pro Val Lys Tyr Glu Asp Val Glu His Lys Val Thr
            95                  100                 105
Thr Val Phe Gly Gln Pro Leu Asp Leu His Tyr Met Asn Asn Glu
        110                 115                 120
Leu Ser Ile Leu Leu Lys Asn Gln Asp Asp Leu Asp Lys Ala Ile
    125                 130                 135
Asp Ile Leu Asp Arg Ser Ser Ser Met Lys Ser Leu Arg Ile Leu
140                 145                 150
Leu Leu Ser Gln Asp Arg Asn His Asn Ser Ser Ser Pro His Ser
155                 160                 165
Gly Val Ser Arg Gln Val Arg Ile Lys Ala Ser Gln Ser Ala Gly
170                 175                 180
Asp Ile Asn Thr Ile Tyr Gln Pro Pro Glu Pro Arg Ser Arg His
185                 190                 195
Leu Ser Val Ser Ser Gln Asn Pro Gly Arg Ser Ser Pro Pro Pro
200                 205                 210
Gly Tyr Val Pro Glu Arg Gln Gln His Ile Ala Arg Gln Gly Ser
215                 220                 225
Tyr Thr Ser Ile Asn Ser Glu Gly Glu Phe Ile Pro Glu Thr Ser
230                 235                 240
Glu Gln Cys Met Leu Asp Pro Leu Ser Ser Ala Glu Asn Ser Leu
245                 250                 255
Ser Gly Ser Cys Gln Ser Leu Asp Arg Ser Ala Asp Ser Pro Ser
260                 265                 270
Phe Arg Lys Ser Arg Met Ser Arg Ala Gln Ser Phe Pro Asp Asn
275                 280                 285
Arg Gln Glu Tyr Ser Asp Arg Glu Thr Gln Leu Tyr Asp Lys Gly
290                 295                 300
Val Lys Gly Gly Thr Tyr Pro Arg Arg Tyr His Val Ser Val His
305                 310                 315
His Lys Asp Tyr Ser Asp Gly Arg Arg Thr Phe Pro Arg Ile Arg
320                 325                 330
Arg His Gln Gly Asn Leu Phe Thr Leu Val Pro Ser Ser Arg Ser
335                 340                 345
Leu Ser Thr Asn Gly Glu Asn Met Gly Leu Ala Val Gln Tyr Leu
350                 355                 360
Asp Pro Arg Gly Arg Leu Arg Ser Ala Asp Ser Glu Asn Ala Leu
365                 370                 375
Ser Val Gln Glu Arg Asn Val Pro Thr Lys Ser Pro Ser Ala Pro
380                 385                 390
Ile Asn Trp Arg Arg Gly Lys Leu Leu Gly Gln Gly Ala Phe Gly
395                 400                 405
Arg Val Tyr Leu Cys Tyr Asp Val Asp Thr Gly Arg Glu Leu Ala
410                 415                 420
Ser Lys Gln Val Gln Phe Asp Pro Asp Ser Pro Glu Thr Ser Lys
425                 430                 435
Glu Val Ser Ala Leu Glu Cys Glu Ile Gln Leu Leu Lys Asn Leu
440                 445                 450
Gln His Glu Arg Ile Val Gln Tyr Tyr Gly Cys Leu Arg Asp Arg
455                 460                 465
Ala Glu Lys Thr Leu Thr Ile Phe Met Glu Tyr Met Pro Gly Gly
470                 475                 480
Ser Val Lys Asp Gln Leu Lys Ala Tyr Gly Ala Leu Thr Glu Ser
```

```
                485                 490                 495
Val Thr Arg Lys Tyr Thr Arg Gln Ile Leu Glu Gly Met Ser Tyr
                500                 505                 510
Leu His Ser Asn Met Ile Val His Arg Asp Ile Lys Gly Ala Trp
                515                 520                 525
Ala Ala Leu Trp Trp Arg Cys
                530
```

<210> 33
<211> 410
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523705CD1

<400> 33

```
Met Gly Cys Val Phe Cys Lys Lys Leu Glu Pro Val Ala Thr Ala
  1                 5                  10                  15
Lys Glu Asp Ala Gly Leu Glu Gly Asp Phe Arg Ser Tyr Gly Ala
                 20                  25                  30
Ala Asp His Tyr Gly Pro Asp Pro Thr Lys Ala Arg Pro Ala Ser
                 35                  40                  45
Ser Phe Ala His Ile Pro Asn Tyr Ser Asn Phe Ser Ser Gln Ala
                 50                  55                  60
Ile Asn Pro Gly Phe Leu Asp Ser Gly Thr Ile Arg Gly Val Ser
                 65                  70                  75
Gly Ile Gly Val Thr Leu Phe Ile Ala Leu Tyr Asp Tyr Glu Ala
                 80                  85                  90
Arg Thr Glu Asp Asp Leu Thr Phe Thr Lys Gly Glu Lys Phe His
                 95                 100                 105
Ile Leu Asn Asn Thr Glu Gly Asp Trp Trp Glu Ala Arg Ser Leu
                110                 115                 120
Ser Ser Gly Lys Thr Gly Cys Ile Pro Ser Asn Tyr Val Ala Pro
                125                 130                 135
Val Asp Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys Ile Gly
                140                 145                 150
Arg Lys Asp Ala Glu Arg Gln Leu Leu Ser Pro Gly Asn Pro Gln
                155                 160                 165
Gly Ala Phe Leu Ile Arg Glu Ser Glu Thr Thr Lys Gly Ala Tyr
                170                 175                 180
Ser Leu Ser Ile Arg Asp Trp Asp Gln Thr Arg Gly Asp His Val
                185                 190                 195
Lys His Tyr Lys Ile Arg Lys Leu Asp Met Gly Gly Tyr Tyr Ile
                200                 205                 210
Thr Thr Arg Val Gln Phe Asn Ser Val Gln Glu Leu Val Gln His
                215                 220                 225
Tyr Met Glu Val Asn Asp Gly Leu Cys Asn Leu Leu Ile Ala Pro
                230                 235                 240
Cys Ala Ile Met Lys Pro Gln Thr Leu Gly Leu Ala Lys Asp Ala
                245                 250                 255
Trp Glu Ile Ser Arg Ser Ser Ile Thr Leu Glu Arg Arg Leu Gly
                260                 265                 270
Thr Gly Cys Phe Gly Asp Val Trp Leu Gly Thr Trp Asn Gly Ser
                275                 280                 285
Thr Lys Val Ala Val Lys Thr Leu Lys Pro Gly Thr Met Ser Pro
                290                 295                 300
Lys Ala Phe Leu Glu Glu Ala Gln Val Met Lys Leu Leu Arg His
                305                 310                 315
Asp Lys Leu Val Gln Leu Tyr Ala Val Val Ser Glu Glu Pro Ile
                320                 325                 330
Tyr Ile Val Thr Glu Phe Met Cys His Gly Ser Leu Leu Asp Phe
```

```
                335                 340                 345
Leu Lys Asn Pro Glu Gly Gln Asp Leu Arg Leu Pro Gln Leu Val
                350                 355                 360
Asp Met Ala Ala Gln Val Pro Ser Ser Pro Ser Ser Gly Gln Pro
                365                 370                 375
Gln Lys Leu Pro Ser Leu Ala Asp Ser Pro Ser Ser Gln Thr Cys
                380                 385                 390
Gly Pro Leu Gly Ser Cys Ser Leu Ser Ser Ser Pro Arg Ala Glu
                395                 400                 405
Ser Pro Thr Gln Ala
                410
```

<210> 34
<211> 436
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523706CD1

<400> 34

```
Met Gly Cys Met Lys Ser Lys Phe Leu Gln Val Gly Gly Asn Thr
  1               5                  10                  15
Phe Ser Lys Thr Glu Thr Ser Ala Ser Pro His Cys Pro Val Tyr
                20                  25                  30
Val Pro Asp Pro Thr Ser Thr Ile Lys Pro Gly Pro Asn Ser His
                35                  40                  45
Asn Ser Asn Thr Pro Gly Ile Arg Glu Asp Pro Gly Ser Gly Gly
                50                  55                  60
Arg Leu Asp Pro Trp Pro Pro Gly Arg Arg Ala Thr Ser Gln Ala
                65                  70                  75
Thr Met Ser Pro Ala Leu Thr Leu Trp Arg Gln Arg Arg Ser Tyr
                80                  85                  90
Ser Leu Ser Val Arg Asp Tyr Asp Pro Arg Gln Gly Asp Thr Val
                95                 100                 105
Lys His Tyr Lys Ile Arg Thr Leu Asp Asn Gly Gly Phe Tyr Ile
               110                 115                 120
Ser Pro Arg Ser Thr Phe Ser Thr Leu Gln Glu Leu Val Asp His
               125                 130                 135
Tyr Lys Lys Gly Asn Asp Gly Leu Cys Gln Lys Leu Ser Val Pro
               140                 145                 150
Cys Met Ser Ser Lys Pro Gln Lys Pro Trp Glu Lys Asp Ala Trp
               155                 160                 165
Glu Ile Pro Arg Glu Ser Leu Lys Leu Glu Lys Lys Phe Gly Ala
               170                 175                 180
Gly Gln Phe Gly Glu Val Trp Met Ala Thr Tyr Asn Lys His Thr
               185                 190                 195
Lys Val Ala Val Lys Thr Met Lys Pro Gly Ser Met Ser Val Glu
               200                 205                 210
Ala Phe Leu Ala Glu Ala Asn Val Met Lys Thr Leu Gln His Asp
               215                 220                 225
Lys Leu Val Lys Leu His Ala Val Val Thr Lys Glu Pro Ile Tyr
               230                 235                 240
Ile Ile Thr Glu Phe Met Ala Lys Gly Ser Leu Leu Asp Phe Leu
               245                 250                 255
Lys Ser Asp Glu Gly Ser Lys Gln Pro Leu Pro Lys Leu Ile Asp
               260                 265                 270
Phe Ser Ala Gln Ile Ala Glu Gly Met Ala Phe Ile Glu Gln Arg
               275                 280                 285
Asn Tyr Ile His Arg Asp Leu Arg Ala Ala Asn Ile Leu Val Ser
               290                 295                 300
Ala Ser Leu Val Cys Lys Ile Ala Asp Phe Gly Leu Ala Arg Val
```

```
                305                 310                 315
Ile Glu Asp Asn Glu Tyr Thr Ala Arg Glu Gly Ala Lys Phe Pro
                320                 325                 330
Ile Lys Trp Thr Ala Pro Glu Ala Ile Asn Phe Gly Ser Phe Thr
                335                 340                 345
Ile Lys Ser Asp Val Trp Ser Phe Gly Ile Leu Leu Met Glu Ile
                350                 355                 360
Val Thr Tyr Gly Arg Ile Pro Tyr Pro Gly Met Ser Asn Pro Glu
                365                 370                 375
Val Ile Arg Ala Leu Glu Arg Gly Tyr Arg Met Pro Arg Pro Glu
                380                 385                 390
Asn Cys Pro Glu Glu Leu Tyr Asn Ile Met Met Arg Cys Trp Lys
                395                 400                 405
Asn Arg Pro Glu Glu Arg Pro Thr Phe Glu Tyr Ile Gln Ser Val
                410                 415                 420
Leu Asp Asp Phe Tyr Thr Ala Thr Glu Ser Gln Tyr Gln Gln Gln
                425                 430                 435
Pro
```

<210> 35
<211> 643
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523707CD1

<400> 35

```
Met Ser Pro Phe Leu Arg Ile Gly Leu Ser Asn Phe Asp Cys Gly
  1               5                  10                  15
Ser Cys Gln Ser Cys Gln Gly Glu Ala Val Asn Pro Tyr Cys Ala
                20                  25                  30
Val Leu Val Lys Glu Tyr Val Glu Ser Glu Asn Gly Gln Met Tyr
                35                  40                  45
Ile Gln Lys Lys Pro Thr Met Tyr Pro Pro Trp Asp Ser Thr Phe
                50                  55                  60
Asp Ala His Ile Asn Lys Gly Arg Val Met Gln Ile Ile Val Lys
                65                  70                  75
Gly Lys Asn Val Asp Leu Ile Ser Glu Thr Thr Val Glu Leu Tyr
                80                  85                  90
Ser Leu Ala Glu Arg Cys Arg Lys Asn Asn Gly Lys Thr Glu Ile
                95                 100                 105
Trp Leu Glu Leu Lys Pro Gln Gly Arg Met Leu Met Asn Ala Arg
               110                 115                 120
Tyr Phe Leu Glu Met Ser Asp Thr Lys Asp Met Asn Glu Phe Glu
               125                 130                 135
Thr Glu Gly Phe Phe Ala Leu His Gln Arg Arg Gly Ala Ile Lys
               140                 145                 150
Gln Ala Lys Val His His Val Lys Cys His Glu Phe Thr Ala Thr
               155                 160                 165
Phe Phe Pro Gln Pro Thr Phe Cys Phe Val Cys His Glu Phe Val
               170                 175                 180
Trp Gly Leu Asn Lys Gln Gly Tyr Gln Cys Arg Gln Cys Asn Ala
               185                 190                 195
Ala Ile His Lys Lys Cys Ile Asp Lys Val Ile Ala Lys Cys Thr
               200                 205                 210
Gly Ser Ala Ile Asn Ser Arg Glu Thr Met Phe His Lys Glu Arg
               215                 220                 225
Phe Lys Ile Asp Met Pro His Arg Phe Lys Val Tyr Asn Tyr Lys
               230                 235                 240
Ser Pro Thr Phe Cys Glu His Cys Gly Thr Leu Leu Trp Gly Leu
```

```
                245                 250                 255
Ala Arg Gln Gly Leu Lys Cys Asp Ala Cys Gly Met Asn Val His
                260                 265                 270
His Arg Cys Gln Thr Lys Val Ala Asn Leu Cys Gly Ile Asn Gln
                275                 280                 285
Lys Leu Met Ala Glu Ala Leu Ala Met Ile Glu Ser Thr Gln Gln
                290                 295                 300
Ala Arg Cys Leu Arg Asp Thr Glu Gln Ile Phe Arg Glu Gly Pro
                305                 310                 315
Val Glu Ile Gly Leu Pro Cys Ser Ile Lys Asn Glu Ala Arg Leu
                320                 325                 330
Pro Cys Leu Pro Thr Pro Gly Lys Arg Glu Pro Gln Gly Ile Ser
                335                 340                 345
Trp Glu Ser Pro Leu Asp Glu Val Asp Lys Met Cys His Leu Pro
                350                 355                 360
Glu Pro Glu Leu Asn Lys Glu Arg Pro Ser Leu Gln Ile Lys Leu
                365                 370                 375
Lys Ile Glu Asp Phe Ile Leu His Lys Met Leu Gly Lys Gly Ser
                380                 385                 390
Phe Gly Lys Val Phe Leu Ala Glu Phe Lys Lys Thr Asn Gln Phe
                395                 400                 405
Phe Ala Ile Lys Ala Leu Lys Lys Asp Val Val Leu Met Asp Asp
                410                 415                 420
Asp Val Glu Cys Thr Met Val Glu Lys Arg Val Leu Ser Leu Ala
                425                 430                 435
Trp Glu His Pro Phe Leu Thr His Met Phe Cys Thr Phe Gln Thr
                440                 445                 450
Lys Glu Asn Leu Phe Phe Val Met Glu Tyr Leu Asn Gly Gly Asp
                455                 460                 465
Leu Met Tyr His Ile Gln Ser Cys His Lys Phe Asp Leu Ser Arg
                470                 475                 480
Ala Thr Phe Tyr Ala Ala Glu Ile Ile Leu Gly Leu Gln Phe Leu
                485                 490                 495
His Ser Lys Gly Ile Val Tyr Arg Asp Leu Lys Leu Asp Asn Ile
                500                 505                 510
Leu Leu Asp Lys Asp Gly His Ile Lys Ile Ala Asp Phe Gly Met
                515                 520                 525
Cys Lys Glu Asn Met Leu Gly Asp Ala Lys Thr Asn Thr Phe Cys
                530                 535                 540
Gly Thr Pro Asp Tyr Ile Ala Pro Glu Leu Phe Val Arg Glu Pro
                545                 550                 555
Glu Lys Arg Leu Gly Val Arg Gly Asp Ile Arg Gln His Pro Leu
                560                 565                 570
Phe Arg Glu Ile Asn Trp Glu Glu Leu Glu Arg Lys Glu Ile Asp
                575                 580                 585
Pro Pro Phe Arg Pro Lys Val Lys Ser Pro Phe Asp Cys Ser Asn
                590                 595                 600
Phe Asp Lys Glu Phe Leu Asn Glu Lys Pro Arg Leu Ser Phe Ala
                605                 610                 615
Asp Arg Ala Leu Ile Asn Ser Met Asp Gln Asn Met Phe Arg Asn
                620                 625                 630
Phe Ser Phe Met Asn Pro Gly Met Glu Arg Leu Ile Ser
                635                 640
```

<210> 36
<211> 556
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523719CD1

<400> 36

```
Met Ala Gly Ala Ser Glu Leu Gly Thr Gly Pro Gly Ala Ala Gly
  1               5                  10                  15
Gly Asp Gly Asp Asp Ser Leu Tyr Pro Ile Ala Val Leu Ile Asp
             20                  25                  30
Glu Leu Arg Asn Glu Asp Val Gln Leu Arg Leu Asn Ser Ile Lys
             35                  40                  45
Lys Leu Ser Thr Ile Ala Leu Ala Leu Gly Val Glu Arg Thr Arg
             50                  55                  60
Ser Glu Leu Leu Pro Phe Leu Thr Asp Thr Ile Tyr Asp Glu Asp
             65                  70                  75
Glu Val Leu Leu Ala Leu Ala Glu Gln Leu Gly Asn Phe Thr Gly
             80                  85                  90
Leu Val Gly Gly Pro Asp Phe Ala His Cys Leu Leu Pro Pro Leu
             95                 100                 105
Glu Asn Leu Ala Thr Val Glu Glu Thr Val Val Arg Asp Lys Ala
            110                 115                 120
Val Glu Ser Leu Arg Gln Ile Ser Gln Glu His Thr Pro Val Ala
            125                 130                 135
Leu Glu Ala Tyr Phe Val Pro Leu Val Lys Arg Leu Ala Ser Gly
            140                 145                 150
Asp Trp Phe Thr Ser Arg Thr Ser Ala Cys Gly Leu Phe Ser Val
            155                 160                 165
Cys Tyr Pro Arg Ala Ser Asn Ala Val Lys Ala Glu Ile Arg Gln
            170                 175                 180
Gln Phe Arg Ser Leu Cys Ser Asp Asp Thr Pro Met Val Arg Arg
            185                 190                 195
Ala Ala Ala Ser Lys Leu Gly Glu Phe Ala Lys Val Leu Glu Leu
            200                 205                 210
Asp Ser Val Lys Ser Glu Ile Val Pro Leu Phe Thr Ser Leu Ala
            215                 220                 225
Ser Asp Glu Gln Asp Ser Val Arg Leu Leu Ala Val Glu Ala Cys
            230                 235                 240
Val Ser Ile Ala Gln Leu Leu Ser Gln Asp Asp Leu Glu Thr Leu
            245                 250                 255
Val Met Pro Thr Leu Arg Gln Ala Ala Glu Asp Lys Ser Trp Arg
            260                 265                 270
Val Arg Tyr Met Val Ala Asp Arg Phe Ser Glu Leu Gln Lys Ala
            275                 280                 285
Met Gly Pro Lys Ile Thr Leu Asn Asp Leu Ile Pro Ala Phe Gln
            290                 295                 300
Asn Leu Leu Lys Asp Cys Glu Ala Glu Val Arg Ala Ala Ala Ala
            305                 310                 315
His Lys Val Lys Glu Leu Gly Glu Asn Leu Pro Ile Glu Asp Arg
            320                 325                 330
Glu Thr Ile Ile Met Asn Gln Ile Leu Pro Tyr Ile Lys Cys Pro
            335                 340                 345
Asp Val Arg Leu Asn Ile Ile Ser Asn Leu Asp Cys Val Asn Glu
            350                 355                 360
Val Ile Gly Ile Arg Gln Leu Ser Gln Pro Leu Leu Pro Ala Ile
            365                 370                 375
Val Glu Leu Ala Glu Asp Ala Lys Trp Arg Val Arg Leu Ala Ile
            380                 385                 390
Ile Glu Tyr Met Pro Leu Leu Ala Gly Gln Leu Gly Val Glu Phe
            395                 400                 405
Phe Asp Glu Lys Leu Asn Ser Leu Cys Met Ala Trp Leu Val Asp
            410                 415                 420
His Val Tyr Ala Ile Arg Glu Ala Ala Thr Asn Asn Leu Met Lys
            425                 430                 435
Leu Val Gln Lys Phe Gly Thr Glu Trp Ala Gln Asn Thr Ile Val
            440                 445                 450
Pro Lys Val Leu Val Met Ala Asn Asp Pro Asn Tyr Leu His Arg
            455                 460                 465
```

```
Met Thr Thr Leu Phe Cys Ile Asn Ala Leu Ser Glu Ala Cys Gly
                470                 475                 480
Gln Glu Ile Thr Thr Lys Gln Met Leu Pro Ile Val Leu Lys Met
                485                 490                 495
Ala Gly Asp Gln Val Ala Asn Val Arg Phe Asn Val Ala Lys Ser
                500                 505                 510
Leu Gln Lys Ile Gly Pro Ile Leu Asp Thr Asn Ala Leu Gln Gly
                515                 520                 525
Glu Val Lys Pro Val Leu Gln Lys Leu Gly Gln Asp Glu Asp Val
                530                 535                 540
Asp Val Lys Tyr Phe Ala Gln Glu Ala Ile Ser Val Leu Ala Leu
                545                 550                 555
Ala
```

<210> 37
<211> 728
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523720CD1

<400> 37

```
Met Pro Leu Ala Ala Tyr Cys Tyr Leu Arg Val Val Gly Lys Gly
  1                 5                  10                  15
Ser Tyr Gly Glu Val Thr Leu Val Lys His Arg Arg Asp Gly Lys
                 20                  25                  30
Gln Tyr Val Ile Lys Lys Leu Asn Leu Arg Asn Ala Ser Ser Arg
                 35                  40                  45
Glu Arg Arg Ala Ala Glu Gln Glu Ala Gln Leu Leu Ser Gln Leu
                 50                  55                  60
Lys His Pro Asn Ile Val Thr Tyr Lys Glu Ser Trp Glu Gly Gly
                 65                  70                  75
Asp Gly Leu Leu Tyr Ile Val Met Gly Phe Cys Glu Gly Gly Asp
                 80                  85                  90
Leu Tyr Arg Lys Leu Lys Glu Gln Lys Gly Gln Leu Leu Pro Glu
                 95                 100                 105
Asn Gln Val Val Glu Trp Phe Val Gln Ile Ala Met Ala Leu Gln
                110                 115                 120
Cys Leu His Glu Lys His Ile Leu His Arg Asp Leu Lys Thr Gln
                125                 130                 135
Asn Val Phe Leu Thr Arg Thr Ser Ile Ile Lys Val Gly Asp Leu
                140                 145                 150
Gly Ile Ala Arg Val Leu Glu Asn His Cys Asp Met Ala Ser Thr
                155                 160                 165
Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Phe Ser Asn
                170                 175                 180
Lys Pro Tyr Asn Tyr Lys Ser Asp Val Trp Ala Leu Gly Cys Cys
                185                 190                 195
Val Tyr Glu Met Ala Thr Leu Lys His Ala Phe Asn Ala Lys Asp
                200                 205                 210
Met Asn Ser Leu Val Tyr Arg Ile Ile Glu Gly Lys Leu Pro Pro
                215                 220                 225
Met Pro Arg Asp Tyr Ser Pro Glu Leu Ala Glu Leu Ile Arg Thr
                230                 235                 240
Met Leu Ser Lys Arg Pro Glu Glu Arg Pro Ser Val Arg Ser Ile
                245                 250                 255
Leu Arg Gln Pro Tyr Ile Lys Arg Gln Ile Ser Phe Phe Leu Glu
                260                 265                 270
Ala Thr Lys Ile Lys Thr Ser Lys Asn Asn Ile Lys Asn Gly Asp
                275                 280                 285
```

```
Ser Gln Ser Lys Pro Phe Ala Thr Val Val Ser Gly Glu Ala Glu
                290                 295                 300
Ser Asn His Glu Val Ile His Pro Gln Pro Leu Ser Ser Glu Gly
                305                 310                 315
Ser Gln Thr Tyr Ile Met Gly Glu Gly Lys Cys Leu Ser Gln Glu
                320                 325                 330
Lys Pro Arg Ala Ser Gly Leu Leu Lys Ser Pro Ala Ser Leu Lys
                335                 340                 345
Ala His Thr Cys Lys Gln Asp Leu Ser Asn Thr Thr Glu Leu Ala
                350                 355                 360
Thr Ile Ser Ser Val Asn Ile Asp Ile Leu Pro Ala Lys Gly Arg
                365                 370                 375
Asp Ser Val Ser Asp Gly Phe Val Gln Glu Asn Gln Pro Arg Tyr
                380                 385                 390
Leu Asp Ala Ser Asn Glu Leu Gly Gly Ile Cys Ser Ile Ser Gln
                395                 400                 405
Val Glu Glu Glu Met Leu Gln Asp Asn Thr Lys Ser Ser Ala Gln
                410                 415                 420
Pro Glu Asn Leu Ile Pro Met Trp Ser Ser Asp Ile Val Thr Gly
                425                 430                 435
Glu Lys Asn Glu Pro Val Lys Pro Leu Gln Pro Leu Ile Lys Glu
                440                 445                 450
Gln Lys Pro Lys Asp Gln Asp Gln Val Ala Gly Glu Cys Ile Ile
                455                 460                 465
Glu Lys Gln Gly Arg Ile His Pro Asp Leu Gln Pro His Asn Ser
                470                 475                 480
Gly Ser Glu Pro Ser Leu Ser Arg Gln Arg Arg Gln Lys Arg Arg
                485                 490                 495
Glu Gln Thr Glu His Arg Gly Glu Lys Arg Gln Val Arg Arg Asp
                500                 505                 510
Leu Phe Ala Phe Gln Glu Ser Pro Pro Arg Phe Leu Pro Ser His
                515                 520                 525
Pro Ile Val Gly Lys Val Asp Val Thr Ser Thr Gln Lys Glu Ala
                530                 535                 540
Glu Asn Gln Arg Arg Val Val Thr Gly Ser Val Ser Ser Ser Arg
                545                 550                 555
Ser Ser Glu Met Ser Ser Ser Lys Asp Arg Pro Leu Ser Ala Arg
                560                 565                 570
Glu Arg Arg Arg Leu Lys Gln Ser Gln Glu Glu Met Ser Ser Ser
                575                 580                 585
Gly Pro Ser Val Arg Lys Ala Ser Leu Ser Val Ala Gly Pro Gly
                590                 595                 600
Lys Pro Gln Glu Glu Asp Gln Pro Leu Pro Ala Arg Arg Leu Ser
                605                 610                 615
Ser Asp Cys Ser Val Thr Gln Glu Arg Lys Gln Ile His Cys Leu
                620                 625                 630
Ser Glu Asp Glu Leu Ser Ser Ser Thr Ser Ser Thr Asp Lys Ser
                635                 640                 645
Asp Gly Asp Tyr Gly Glu Gly Lys Gly Gln Thr Asn Glu Ile Asn
                650                 655                 660
Ala Leu Val Gln Leu Met Thr Gln Thr Leu Lys Leu Asp Ser Lys
                665                 670                 675
Glu Ser Cys Glu Asp Val Pro Val Ala Asn Pro Val Ser Glu Phe
                680                 685                 690
Lys Leu His Arg Lys Tyr Arg Asp Thr Leu Ile Leu His Gly Lys
                695                 700                 705
Val Ala Glu Glu Ala Glu Glu Ile His Phe Lys Glu Leu Pro Ser
                710                 715                 720
Gly Thr Phe Ala Gly Ala His Gly
                725
```

<210> 38
<211> 646

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523737CD1

<400> 38
Met Gln Ser Thr Ala Asn Tyr Leu Trp His Thr Asp Asp Leu Leu
1 5 10 15
Gly Gln Gly Ala Thr Ala Ser Val Tyr Lys Ala Arg Asn Lys Lys
20 25 30
Ser Gly Glu Leu Val Ala Val Lys Val Phe Asn Thr Thr Ser Tyr
35 40 45
Leu Arg Pro Arg Glu Val Gln Val Arg Glu Phe Glu Val Leu Arg
50 55 60
Lys Leu Asn His Gln Asn Ile Val Lys Leu Phe Ala Val Glu Glu
65 70 75
Thr Gly Gly Ser Arg Gln Lys Val Leu Val Met Glu Tyr Cys Ser
80 85 90
Ser Gly Ser Leu Leu Ser Val Leu Glu Ser Pro Glu Asn Ala Phe
95 100 105
Gly Leu Pro Glu Asp Glu Phe Leu Val Val Leu Arg Cys Val Val
110 115 120
Ala Gly Met Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp
125 130 135
Ile Lys Pro Gly Asn Ile Met Arg Leu Val Gly Glu Glu Gly Gln
140 145 150
Ser Ile Tyr Lys Leu Thr Asp Phe Gly Ala Ala Arg Glu Leu Asp
155 160 165
Asp Asp Glu Lys Phe Val Ser Val Tyr Gly Thr Glu Glu Tyr Leu
170 175 180
His Pro Asp Met Tyr Glu Arg Ala Val Leu Arg Lys Pro Gln Gln
185 190 195
Lys Ala Phe Gly Val Thr Val Asp Leu Trp Ser Ile Gly Val Thr
200 205 210
Leu Tyr His Ala Ala Thr Gly Ser Leu Pro Phe Ile Pro Phe Gly
215 220 225
Gly Pro Arg Arg Asn Lys Glu Ile Met Tyr Arg Ile Thr Thr Glu
230 235 240
Lys Pro Ala Gly Ala Ile Ala Gly Ala Gln Arg Arg Glu Asn Gly
245 250 255
Pro Leu Glu Trp Ser Tyr Thr Leu Pro Ile Thr Cys Gln Leu Ser
260 265 270
Leu Gly Leu Gln Ser Gln Leu Val Pro Ile Leu Ala Asn Ile Leu
275 280 285
Glu Val Glu Gln Ala Lys Cys Trp Gly Phe Asp Gln Phe Phe Ala
290 295 300
Glu Thr Ser Asp Ile Leu Gln Arg Val Val Val His Val Phe Ser
305 310 315
Leu Ser Gln Ala Val Leu His His Ile Tyr Ile His Ala His Asn
320 325 330
Thr Ile Ala Ile Phe Gln Glu Ala Val His Lys Gln Thr Ser Val
335 340 345
Ala Pro Arg His Gln Glu Tyr Leu Phe Glu Gly His Leu Cys Val
350 355 360
Leu Glu Pro Ser Val Ser Ala Gln His Ile Ala His Thr Thr Ala
365 370 375
Ser Ser Pro Leu Thr Leu Phe Ser Thr Ala Ile Pro Lys Gly Leu
380 385 390
Ala Phe Arg Asp Pro Ala Leu Asp Val Pro Lys Phe Val Pro Lys
395 400 405
Val Asp Leu Gln Ala Asp Tyr Asn Thr Ala Lys Gly Val Leu Gly

```
                410                 415                 420
Ala Gly Tyr Gln Ala Leu Arg Leu Ala Arg Ala Leu Leu Asp Gly
                425                 430                 435
Gln Glu Leu Met Phe Arg Gly Leu His Trp Val Met Glu Val Leu
                440                 445                 450
Gln Ala Thr Cys Arg Arg Thr Leu Glu Val Ala Arg Thr Ser Leu
                455                 460                 465
Leu Tyr Leu Ser Ser Ser Leu Gly Thr Glu Arg Phe Ser Ser Val
                470                 475                 480
Ala Gly Thr Pro Glu Ile Gln Glu Leu Lys Ala Ala Ala Glu Leu
                485                 490                 495
Arg Ser Arg Leu Arg Thr Leu Ala Glu Val Leu Ser Arg Cys Ser
                500                 505                 510
Gln Asn Ile Thr Glu Thr Gln Glu Ser Leu Ser Ser Leu Asn Arg
                515                 520                 525
Glu Leu Val Lys Ser Arg Asp Gln Val His Glu Asp Arg Ser Ile
                530                 535                 540
Gln Gln Ile Gln Cys Cys Leu Asp Lys Met Asn Phe Ile Tyr Lys
                545                 550                 555
Gln Phe Lys Lys Ser Arg Met Arg Pro Gly Leu Gly Tyr Asn Glu
                560                 565                 570
Glu Gln Ile His Lys Leu Asp Lys Val Asn Phe Ser His Leu Ala
                575                 580                 585
Lys Arg Leu Leu Gln Val Phe Gln Glu Glu Cys Val Gln Lys Tyr
                590                 595                 600
Gln Ala Ser Leu Val Thr His Gly Lys Arg Met Ser Met Gln Glu
                605                 610                 615
Leu Cys Glu Gly Met Lys Leu Leu Ala Ser Asp Leu Leu Asp Asn
                620                 625                 630
Asn Arg Ile Ile Glu Arg Leu Asn Arg Val Pro Ala Pro Pro Asp
                635                 640                 645
Val
```

<210> 39
<211> 385
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523742CD1

<400> 39

```
Met Ala Gly Asn Cys Gly Ala Arg Gly Ala Leu Ser Ala His Thr
  1                 5                  10                  15
Leu Leu Phe Asp Leu Pro Pro Ala Leu Leu Gly Glu Leu Cys Ala
                 20                  25                  30
Val Leu Asp Ser Cys Asp Gly Ala Leu Gly Trp Arg Gly Leu Gly
                 35                  40                  45
Ala Val Leu Ser Pro Ser Glu Lys Ser Tyr Gln Glu Gly Gly Phe
                 50                  55                  60
Pro Asn Ile Leu Phe Lys Glu Thr Ala Asn Val Thr Val Asp Asn
                 65                  70                  75
Val Leu Ile Pro Glu His Asn Glu Lys Gly Val Leu Leu Lys Ser
                 80                  85                  90
Ser Ile Ser Phe Gln Asn Ile Ile Glu Gly Thr Arg Asn Phe His
                 95                 100                 105
Lys Asp Phe Leu Ile Gly Glu Gly Glu Ile Phe Glu Val Tyr Arg
                110                 115                 120
Val Glu Ile Gln Asn Leu Thr Tyr Ala Val Lys Leu Phe Lys Gln
                125                 130                 135
Glu Lys Lys Met Gln Cys Lys Lys His Trp Lys Arg Phe Leu Ser
```

```
                140                 145                 150
Glu Leu Glu Val Leu Leu Leu Phe His His Pro Asn Ile Leu Glu
                155                 160                 165
Leu Ala Ala Tyr Phe Thr Glu Thr Glu Lys Phe Cys Leu Ile Tyr
                170                 175                 180
Pro Tyr Met Arg Asn Gly Thr Leu Phe Gly Arg Leu Gln Cys Val
                185                 190                 195
Gly Asp Thr Ala Pro Leu Pro Trp His Ile Arg Ile Gly Ile Leu
                200                 205                 210
Ile Gly Ile Ser Lys Ala Ile His Tyr Leu His Asn Val Gln Pro
                215                 220                 225
Cys Ser Val Ile Cys Gly Ser Ile Ser Ser Ala Asn Ile Leu Leu
                230                 235                 240
Asp Asp Gln Phe Gln Pro Lys Leu Thr Asp Phe Ala Met Ala His
                245                 250                 255
Phe Arg Ser His Leu Glu His Gln Ser Cys Thr Ile Asn Met Thr
                260                 265                 270
Ser Ser Ser Ser Lys His Leu Trp Tyr Met Pro Glu Glu Tyr Ile
                275                 280                 285
Arg Gln Gly Lys Leu Ser Ile Lys Thr Asp Val Tyr Ser Phe Gly
                290                 295                 300
Ile Val Ile Met Glu Val Leu Thr Gly Cys Arg Val Val Leu Asp
                305                 310                 315
Asp Pro Lys His Ile Gln Leu Arg Asp Leu Leu Arg Glu Leu Met
                320                 325                 330
Glu Lys Arg Gly Leu Asp Ser Cys Leu Ser Phe Leu Asp Lys Lys
                335                 340                 345
Val Pro Pro Cys Pro Arg Asn Phe Ser Ala Glu Leu Phe Cys Leu
                350                 355                 360
Ala Gly Arg Cys Ala Ala Thr Arg Ala Lys Leu Arg Pro Ser Met
                365                 370                 375
Asp Glu Val Leu Asn Thr Leu Glu Ser Thr
                380                 385

<210> 40
<211> 469
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523743CD1

<400> 40
Met Ala Gly Ala Ser Glu Leu Gly Thr Gly Pro Gly Ala Ala Gly
  1               5                  10                  15
Gly Asp Gly Asp Asp Ser Leu Tyr Pro Ile Ala Val Leu Ile Asp
                20                  25                  30
Glu Leu Arg Asn Glu Asp Val Gln Leu Arg Leu Asn Ser Ile Lys
                35                  40                  45
Lys Leu Ser Thr Ile Ala Leu Ala Leu Gly Val Glu Arg Thr Arg
                50                  55                  60
Ser Glu Leu Leu Pro Phe Leu Thr Asp Thr Ile Tyr Asp Glu Asp
                65                  70                  75
Glu Val Leu Leu Ala Leu Ala Glu Gln Leu Gly Asn Phe Thr Gly
                80                  85                  90
Leu Val Gly Gly Pro Asp Phe Ala His Cys Leu Leu Pro Pro Leu
                95                 100                 105
Glu Asn Leu Ala Thr Val Glu Glu Thr Val Val Arg Asp Lys Ala
                110                115                 120
Val Glu Ser Leu Arg Gln Ile Ser Gln Glu His Thr Pro Val Ala
                125                130                 135
Leu Glu Ala Tyr Phe Val Pro Leu Val Lys Arg Leu Ala Ser Gly
```

```
                  140                 145                 150
Asp Trp Phe Thr Ser Arg Thr Ser Ala Cys Gly Leu Phe Ser Val
                  155                 160                 165
Cys Tyr Pro Arg Ala Ser Asn Ala Val Lys Ala Glu Ile Arg Gln
                  170                 175                 180
Gln Phe Arg Ser Leu Cys Ser Asp Asp Thr Pro Met Val Arg Arg
                  185                 190                 195
Ala Ala Ala Ser Lys Leu Gly Glu Phe Ala Lys Val Leu Glu Leu
                  200                 205                 210
Asp Ser Val Lys Ser Glu Ile Val Pro Leu Phe Thr Ser Leu Ala
                  215                 220                 225
Ser Asp Glu Gln Asp Ser Val Arg Leu Leu Ala Val Glu Ala Cys
                  230                 235                 240
Val Ser Ile Ala Gln Leu Leu Ser Gln Asp Asp Leu Glu Thr Leu
                  245                 250                 255
Val Met Pro Thr Leu Arg Gln Ala Ala Glu Asp Lys Ser Trp Arg
                  260                 265                 270
Val Arg Tyr Met Val Ala Asp Arg Phe Ser Glu Leu Gln Lys Ala
                  275                 280                 285
Met Gly Pro Lys Ile Thr Leu Asn Asp Leu Ile Pro Ala Phe Gln
                  290                 295                 300
Asn Leu Leu Lys Asp Cys Glu Ala Glu Val Arg Ala Ala Ala Ala
                  305                 310                 315
His Lys Val Lys Glu Leu Gly Glu Asn Leu Pro Ile Glu Asp Arg
                  320                 325                 330
Glu Thr Ile Ile Met Asn Gln Ile Leu Pro Tyr Ile Lys Glu Leu
                  335                 340                 345
Val Ser Asp Thr Asn Gln His Val Lys Ser Ala Leu Ala Ser Val
                  350                 355                 360
Ile Met Gly Leu Ser Thr Ile Leu Gly Lys Glu Asn Thr Ile Glu
                  365                 370                 375
His Leu Leu Pro Leu Phe Leu Ala Gln Leu Lys Asp Glu Cys Pro
                  380                 385                 390
Asp Val Arg Leu Asn Ile Ile Ser Asn Leu Asp Cys Val Asn Glu
                  395                 400                 405
Val Ile Gly Ile Arg Gln Leu Ser Gln Ser Leu Pro Pro Ala Ile
                  410                 415                 420
Val Glu Leu Ala Glu Asp Ala Lys Trp Arg Val Arg Leu Ala Ile
                  425                 430                 435
Ile Glu Tyr Met Pro Leu Leu Ala Gly Gln Leu Gly Val Glu Phe
                  440                 445                 450
Phe Asp Glu Lys Leu Asn Ser Leu Cys Met Ala Trp Leu Val Asp
                  455                 460                 465
His Gly Thr Val
```

<210> 41
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523745CD1

<400> 41

```
Met Gly Cys Val Phe Cys Lys Lys Leu Glu Pro Val Ala Thr Ala
  1                 5                  10                  15
Lys Glu Asp Ala Gly Leu Glu Gly Asp Phe Arg Ser Tyr Gly Ala
                  20                  25                  30
Ala Asp His Tyr Gly Pro Asp Pro Thr Lys Ala Arg Pro Ala Ser
                  35                  40                  45
Ser Phe Ala His Ile Pro Asn Tyr Ser Asn Phe Ser Ser Gln Ala
```

```
                  50                  55                  60
Ile Asn Pro Gly Phe Leu Asp Ser Gly Thr Ile Arg Gly Val Ser
                  65                  70                  75
Gly Ile Gly Val Thr Leu Phe Ile Ala Leu Tyr Asp Tyr Glu Ala
                  80                  85                  90
Arg Thr Glu Asp Asp Leu Thr Phe Thr Lys Gly Glu Lys Phe His
                  95                 100                 105
Ile Leu Asn Asn Thr Glu Gly Asp Trp Trp Glu Ala Arg Ser Leu
                 110                 115                 120
Ser Ser Gly Lys Thr Gly Cys Ile Pro Ser Asn Tyr Val Ala Pro
                 125                 130                 135
Val Asp Ser Ile Gln Ala Glu Asp Tyr Ile Asp Gly
                 140                 145
```

<210> 42
<211> 145
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523757CD1

<400> 42

```
Met Glu Leu Arg Asp Val Ser Leu Gln Asp Pro Arg Asp Arg Phe
  1               5                  10                  15
Glu Leu Leu Gln Arg Val Gly Ala Gly Thr Tyr Gly Asp Val Tyr
                 20                  25                  30
Lys Ala Arg Asp Thr Val Thr Ser Glu Leu Ala Ala Val Lys Ile
                 35                  40                  45
Val Lys Leu Asp Pro Gly Asp Asp Ile Ser Ser Leu Gln Gln Glu
                 50                  55                  60
Ile Thr Ile Leu Arg Glu Cys Arg His Pro Asn Val Val Ala Tyr
                 65                  70                  75
Ile Gly Ser Tyr Leu Arg Asn Asp Arg Leu Trp Ile Cys Met Glu
                 80                  85                  90
Phe Cys Gly Gly Gly Ser Leu Gln Glu Ile Tyr His Ala Thr Gly
                 95                 100                 105
Pro Leu Glu Glu Arg Gln Ile Ala Tyr Val Cys Arg Glu Ala Leu
                110                 115                 120
Lys Gly Leu His His Leu His Ser Gln Gly Lys Ile His Arg Asp
                125                 130                 135
Ile Lys Leu Thr Leu Gly Cys Gln Ala Ser
                140                 145
```

<210> 43
<211> 653
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523770CD1

<400> 43

```
Met Asp Glu Gln Glu Ala Leu Asn Ser Ile Met Asn Asp Leu Val
  1               5                  10                  15
Ala Leu Gln Met Asn Arg Arg His Arg Met Pro Gly Tyr Glu Thr
                 20                  25                  30
Met Lys Asn Lys Asp Thr Gly His Ser Asn Arg Gln Lys Lys His
                 35                  40                  45
Asn Ser Ser Ser Ser Ala Leu Leu Asn Ser Pro Thr Val Thr Thr
                 50                  55                  60
```

```
Ser Ser Cys Ala Gly Ala Ser Glu Lys Lys Lys Phe Leu Ser Asp
                65                  70                  75
Val Arg Ile Lys Phe Glu His Asn Gly Glu Arg Arg Ile Ile Ala
                80                  85                  90
Phe Ser Arg Pro Val Lys Tyr Glu Asp Val Glu His Lys Val Thr
                95                 100                 105
Thr Val Phe Gly Gln Pro Leu Asp Leu His Tyr Met Asn Asn Glu
               110                 115                 120
Leu Ser Ile Leu Leu Lys Asn Gln Asp Asp Leu Asp Lys Ala Ile
               125                 130                 135
Asp Ile Leu Asp Arg Ser Ser Ser Met Lys Ser Leu Arg Ile Leu
               140                 145                 150
Leu Leu Ser Gln Asp Arg Asn His Asn Ser Ser Ser Pro His Ser
               155                 160                 165
Gly Val Ser Arg Gln Val Arg Ile Lys Ala Ser Gln Ser Ala Gly
               170                 175                 180
Asp Ile Asn Thr Ile Tyr Gln Pro Pro Glu Pro Arg Ser Arg His
               185                 190                 195
Leu Ser Val Ser Ser Gln Asn Pro Gly Arg Ser Ser Pro Pro Pro
               200                 205                 210
Gly Tyr Val Pro Glu Arg Gln Gln His Ile Ala Arg Gln Gly Ser
               215                 220                 225
Tyr Thr Ser Ile Asn Ser Glu Gly Glu Phe Ile Pro Glu Thr Ser
               230                 235                 240
Glu Gln Cys Met Leu Asp Pro Leu Ser Ser Ala Glu Asn Ser Leu
               245                 250                 255
Ser Gly Ser Cys Gln Ser Leu Asp Ser Pro Ser Phe Arg Lys Ser
               260                 265                 270
Arg Met Ser Arg Ala Gln Ser Phe Pro Asp Asn Arg Gln Glu Tyr
               275                 280                 285
Ser Asp Arg Glu Thr Gln Leu Tyr Asp Lys Gly Val Lys Gly Gly
               290                 295                 300
Thr Tyr Pro Arg Arg Tyr His Val Ser Val His His Lys Asp Tyr
               305                 310                 315
Ser Asp Gly Arg Arg Thr Phe Pro Arg Ile Arg Arg His Gln Gly
               320                 325                 330
Asn Leu Phe Thr Leu Val Pro Ser Ser Arg Ser Leu Ser Thr Asn
               335                 340                 345
Gly Glu Asn Met Gly Leu Ala Val Gln Tyr Leu Asp Pro Arg Gly
               350                 355                 360
Arg Leu Arg Ser Ala Asp Ser Glu Asn Ala Leu Ser Val Gln Glu
               365                 370                 375
Arg Asn Val Pro Thr Lys Ser Pro Ser Ala Pro Ile Asn Trp Arg
               380                 385                 390
Arg Gly Lys Leu Leu Gly Gln Gly Ala Phe Gly Arg Val Tyr Leu
               395                 400                 405
Cys Tyr Asp Val Asp Thr Gly Arg Glu Leu Ala Ser Lys Gln Val
               410                 415                 420
Gln Phe Asp Pro Asp Ser Pro Glu Thr Ser Lys Glu Val Ser Ala
               425                 430                 435
Leu Glu Cys Glu Ile Gln Leu Leu Lys Asn Leu Gln His Glu Arg
               440                 445                 450
Ile Val Gln Tyr Tyr Gly Cys Leu Arg Asp Arg Ala Glu Lys Thr
               455                 460                 465
Leu Thr Ile Phe Met Glu Tyr Met Pro Gly Gly Ser Val Lys Asp
               470                 475                 480
Gln Leu Lys Ala Tyr Gly Ala Leu Thr Glu Ser Val Thr Arg Lys
               485                 490                 495
Tyr Thr Arg Gln Ile Leu Glu Gly Met Ser Tyr Leu His Ser Asn
               500                 505                 510
Met Ile Val His Arg Asp Ile Lys Gly Ala Asn Ile Leu Arg Asp
               515                 520                 525
Ser Ala Gly Asn Val Lys Leu Gly Asp Phe Gly Ala Ser Lys Arg
```

```
                530                 535                 540
Leu Gln Thr Ile Cys Met Ser Gly Thr Gly Met Arg Ser Val Thr
                545                 550                 555
Gly Thr Pro Tyr Trp Met Ser Pro Glu Val Ile Ser Gly Glu Gly
                560                 565                 570
Tyr Gly Arg Lys Ala Asp Val Trp Ser Leu Gly Cys Thr Val Val
                575                 580                 585
Glu Met Leu Thr Glu Lys Pro Pro Trp Ala Glu Tyr Glu Ala Met
                590                 595                 600
Ala Ala Ile Phe Lys Ile Ala Thr Gln Pro Thr Asn Pro Gln Leu
                605                 610                 615
Pro Ser His Ile Ser Glu His Gly Arg Asp Phe Leu Arg Arg Ile
                620                 625                 630
Phe Val Glu Ala Arg Gln Arg Pro Ser Ala Glu Glu Leu Leu Thr
                635                 640                 645
His His Phe Ala Gln Leu Met Tyr
                650
```

<210> 44
<211> 706
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523919CD1

<400> 44

```
Met Pro Leu Ala Ala Tyr Cys Tyr Leu Arg Val Val Gly Lys Gly
  1                 5                  10                  15
Ser Tyr Gly Glu Val Thr Leu Val Lys His Arg Arg Asp Gly Lys
                 20                  25                  30
Gln Tyr Leu His Glu Lys His Ile Leu His Arg Asp Leu Lys Thr
                 35                  40                  45
Gln Asn Val Phe Leu Thr Arg Thr Asn Ile Ile Lys Val Gly Asp
                 50                  55                  60
Leu Gly Ile Ala Arg Val Leu Glu Asn His Cys Asp Met Ala Ser
                 65                  70                  75
Thr Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Phe Ser
                 80                  85                  90
Asn Lys Pro Tyr Asn Tyr Lys Ser Asp Val Trp Ala Leu Gly Cys
                 95                 100                 105
Cys Val Tyr Glu Met Ala Thr Leu Lys His Ala Phe Asn Ala Lys
                110                 115                 120
Asp Met Asn Ser Leu Val Tyr Arg Ile Ile Glu Gly Lys Leu Pro
                125                 130                 135
Ala Met Pro Arg Asp Tyr Ser Pro Glu Leu Ala Glu Leu Ile Arg
                140                 145                 150
Thr Met Leu Ser Lys Arg Pro Glu Glu Arg Pro Ser Val Arg Ser
                155                 160                 165
Ile Leu Arg Gln Pro Tyr Ile Lys Arg Gln Ile Ser Phe Phe Leu
                170                 175                 180
Glu Ala Thr Lys Ile Lys Thr Ser Lys Asn Asn Ile Lys Asn Gly
                185                 190                 195
Asp Ser Gln Ser Lys Pro Phe Ala Thr Val Val Ser Gly Glu Ala
                200                 205                 210
Glu Ser Asn His Glu Val Ile His Pro Gln Pro Leu Ser Ser Glu
                215                 220                 225
Gly Ser Gln Thr Tyr Ile Met Gly Glu Gly Lys Cys Leu Ser Gln
                230                 235                 240
Glu Lys Pro Arg Ala Ser Gly Leu Leu Lys Ser Pro Ala Ser Leu
                245                 250                 255
Lys Ala His Thr Cys Lys Gln Asp Leu Ser Asn Thr Thr Glu Leu
```

```
                260                 265                 270
Ala Thr Ile Ser Ser Val Asn Ile Asp Ile Leu Pro Ala Lys Gly
            275                 280                 285
Arg Asp Ser Val Ser Asp Gly Phe Val Gln Glu Asn Gln Pro Arg
        290                 295                 300
Tyr Leu Asp Ala Ser Asn Glu Leu Gly Gly Ile Cys Ser Ile Ser
    305                 310                 315
Gln Val Glu Glu Glu Met Leu Gln Asp Asn Thr Lys Ser Ser Ala
                320                 325                 330
Gln Pro Glu Asn Leu Ile Pro Met Trp Ser Ser Asp Ile Val Thr
            335                 340                 345
Gly Glu Lys Asn Glu Pro Val Lys Pro Leu Gln Pro Leu Ile Lys
        350                 355                 360
Glu Gln Lys Pro Lys Asp Gln Asp Gln Val Ala Gly Glu Cys Ile
    365                 370                 375
Ile Glu Lys Gln Gly Arg Ile His Pro Asp Ser Gln Pro His Asn
                380                 385                 390
Ser Gly Ser Glu Pro Ser Leu Ser Arg Gln Arg Arg Gln Lys Arg
            395                 400                 405
Arg Glu Gln Thr Glu His Arg Gly Glu Lys Arg Gln Val Arg Arg
        410                 415                 420
Asp Leu Phe Ala Phe Gln Glu Ser Pro Pro Arg Phe Leu Pro Ser
    425                 430                 435
His Pro Ile Val Gly Lys Val Asp Val Thr Ser Thr Gln Lys Glu
                440                 445                 450
Ala Glu Asn Gln Arg Arg Val Ala Thr Gly Ser Val Ser Ser Ser
            455                 460                 465
Arg Ser Ser Glu Met Ser Ser Ser Lys Asp Arg Pro Leu Ser Ala
        470                 475                 480
Arg Glu Arg Arg Arg Leu Lys Gln Ser Gln Glu Glu Met Ser Ser
    485                 490                 495
Ser Gly Pro Ser Val Arg Lys Ala Ser Leu Ser Val Ala Gly Pro
                500                 505                 510
Gly Lys Pro Gln Glu Glu Asp Gln Pro Leu Pro Ala Arg Arg Leu
            515                 520                 525
Ser Ser Asp Cys Ser Val Thr Gln Glu Arg Lys Gln Ile His Cys
        530                 535                 540
Leu Ser Glu Asp Glu Leu Ser Ser Ser Thr Ser Ser Thr Asp Lys
    545                 550                 555
Ser Asp Gly Asp Tyr Gly Glu Gly Lys Gly Gln Thr Asn Glu Ile
                560                 565                 570
Asn Ala Leu Val Gln Leu Met Thr Gln Thr Leu Lys Leu Asp Ser
            575                 580                 585
Lys Glu Ser Cys Glu Asp Val Pro Val Ala Asn Pro Val Ser Glu
        590                 595                 600
Phe Lys Leu His Arg Lys Tyr Arg Asp Thr Leu Ile Leu His Gly
    605                 610                 615
Lys Val Ala Glu Glu Ala Glu Glu Ile His Phe Lys Glu Leu Pro
                620                 625                 630
Ser Ala Ile Met Pro Gly Ser Glu Lys Ile Arg Arg Leu Val Glu
            635                 640                 645
Val Leu Arg Thr Asp Val Ile Arg Gly Leu Gly Val Gln Leu Leu
        650                 655                 660
Glu Gln Val Tyr Asp Leu Leu Glu Glu Glu Asp Glu Phe Asp Arg
    665                 670                 675
Glu Val Arg Leu Arg Glu His Met Gly Glu Lys Tyr Thr Thr Tyr
                680                 685                 690
Ser Val Lys Ala Arg Gln Leu Lys Phe Phe Glu Glu Asn Met Asn
            695                 700                 705
Phe
```

<210> 45

<211> 243
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522140CD1

<400> 45
Met Asp Pro Thr Ala Gly Ser Lys Lys Glu Pro Gly Gly Gly Ala
1 5 10 15
Ala Thr Glu Glu Gly Val Asn Arg Ile Ala Val Pro Lys Pro Pro
20 25 30
Ser Ile Glu Glu Phe Ser Ile Val Lys Pro Ile Ser Arg Gly Ala
35 40 45
Phe Gly Lys Val Tyr Leu Gly Gln Lys Gly Gly Lys Leu Tyr Ala
50 55 60
Val Lys Val Val Lys Lys Ala Asp Met Ile Asn Lys Asn Met Thr
65 70 75
His Gln Val Gln Ala Glu Arg Asp Ala Leu Ala Leu Ser Lys Ser
80 85 90
Pro Phe Ile Val His Leu Tyr Tyr Ser Leu Gln Ser Ala Asn Asn
95 100 105
Val Tyr Leu Val Met Glu Tyr Leu Ile Gly Gly Asp Val Lys Ser
110 115 120
Leu Leu His Ile Tyr Gly Tyr Phe Asp Glu Glu Met Ala Val Lys
125 130 135
Tyr Ile Ser Glu Val Ala Leu Ala Leu Asp Tyr Leu His Arg His
140 145 150
Gly Ile Ile His Arg Asp Leu Lys Pro Asp Asn Met Leu Ile Ser
155 160 165
Asn Glu Gly His Ile Lys Leu Thr Asp Phe Gly Leu Ser Lys Val
170 175 180
Thr Leu Asn Arg Gly Leu Glu Thr Val Ala Ser Asn Pro Gly Met
185 190 195
Pro Val Lys Cys Leu Thr Ser Asn Leu Leu Gln Ser Arg Lys Arg
200 205 210
Leu Ala Thr Ser Ser Ala Ser Ser Gln Ser His Thr Phe Ile Ser
215 220 225
Ser Val Glu Ser Glu Cys His Ser Ser Pro Lys Trp Glu Lys Asp
230 235 240
Cys Gln Val

<210> 46
<211> 416
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522525CD1

<400> 46
Met Ile Ser Phe Cys Pro Asp Cys Gly Lys Ser Ile Gln Ala Ala
1 5 10 15
Phe Lys Phe Cys Pro Tyr Cys Gly Asn Ser Leu Pro Val Glu Glu
20 25 30
His Val Gly Ser Gln Thr Phe Val Asn Pro His Val Pro Ser Phe
35 40 45
Gln Gly Ser Lys Arg Gly Leu Asn Ser Ser Phe Glu Thr Ser Pro
50 55 60
Lys Lys Val Lys Trp Ser Ser Thr Val Thr Ser Pro Arg Leu Ser

```
                 65                  70                  75
Leu Phe Ser Asp Gly Asp Ser Ser Glu Ser Glu Asp Thr Leu Ser
                 80                  85                  90
Ser Ser Glu Arg Ser Lys Gly Thr Val Leu Thr Asp Lys Ser Gly
                 95                 100                 105
Arg Gln Trp Lys Leu Lys Ser Phe Gln Thr Arg Asp Asn Gln Gly
                110                 115                 120
Ile Leu Tyr Glu Ala Ala Pro Thr Ser Thr Leu Thr Cys Asp Ser
                125                 130                 135
Gly Pro Gln Lys Gln Lys Phe Ser Leu Lys Leu Asp Ala Lys Asp
                140                 145                 150
Gly Arg Leu Phe Asn Glu Gln Asn Phe Phe Gln Arg Ala Ala Lys
                155                 160                 165
Pro Leu Gln Val Asn Lys Trp Lys Lys Leu Tyr Ser Thr Pro Leu
                170                 175                 180
Leu Ala Ile Pro Thr Cys Met Gly Phe Gly Val His Gln Asp Lys
                185                 190                 195
Tyr Arg Phe Leu Val Leu Pro Ser Leu Gly Arg Ser Leu Gln Ser
                200                 205                 210
Ala Leu Asp Val Ser Pro Lys His Val Leu Ser Glu Arg Ser Val
                215                 220                 225
Leu Gln Val Ala Cys Arg Leu Leu Asp Ala Leu Glu Phe Leu His
                230                 235                 240
Glu Asn Glu Tyr Val His Gly Asn Val Thr Ala Glu Asn Ile Phe
                245                 250                 255
Val Asp Pro Glu Asp Gln Ser Gln Val Thr Leu Ala Gly Tyr Gly
                260                 265                 270
Phe Ala Phe Arg Tyr Cys Pro Ser Gly Lys His Val Ala Tyr Val
                275                 280                 285
Glu Gly Ser Arg Ser Pro His Glu Gly Asp Leu Glu Phe Ile Ser
                290                 295                 300
Met Asp Leu His Lys Gly Cys Gly Pro Ser Arg Arg Ser Asp Leu
                305                 310                 315
Gln Ser Leu Gly Tyr Cys Met Leu Lys Trp Leu Tyr Gly Phe Leu
                320                 325                 330
Pro Trp Thr Asn Cys Leu Pro Asn Thr Glu Asp Ile Met Lys Gln
                335                 340                 345
Lys Gln Lys Phe Val Asp Lys Pro Gly Pro Phe Val Gly Pro Cys
                350                 355                 360
Gly His Trp Ile Arg Pro Ser Glu Thr Leu Gln Lys Tyr Leu Lys
                365                 370                 375
Val Val Met Ala Leu Thr Tyr Glu Glu Lys Pro Pro Tyr Ala Met
                380                 385                 390
Leu Arg Asn Asn Leu Glu Ala Leu Leu Gln Asp Leu Arg Val Ser
                395                 400                 405
Pro Tyr Asp Pro Ile Gly Leu Pro Met Val Pro
                410                 415
```

<210> 47
<211> 839
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7525355CD1

<400> 47

```
Met Glu Thr Cys Ala Gly Pro His Pro Leu Arg Leu Phe Leu Cys
  1               5                  10                  15
Arg Met Gln Leu Cys Leu Ala Leu Leu Leu Gly Pro Trp Arg Pro
                20                  25                  30
Gly Thr Ala Glu Glu Val Ile Leu Leu Asp Ser Lys Ala Ser Gln
```

```
                35                  40                  45
Ala Glu Leu Gly Trp Thr Ala Leu Pro Ser Asn Gly Trp Glu Glu
            50                  55                  60
Ile Ser Gly Val Asp Glu His Asp Arg Pro Ile Arg Thr Tyr Gln
        65                  70                  75
Val Cys Asn Val Leu Glu Pro Asn Gln Asp Asn Trp Leu Gln Thr
                80                  85                  90
Gly Trp Ile Ser Arg Gly Arg Gly Gln Arg Ile Phe Val Glu Leu
            95                  100                 105
Gln Phe Thr Leu Arg Asp Cys Ser Ser Ile Pro Gly Ala Ala Gly
        110                 115                 120
Thr Cys Lys Glu Thr Phe Asn Val Tyr Tyr Leu Glu Thr Glu Ala
    125                 130                 135
Asp Leu Gly Arg Gly Arg Pro Arg Leu Gly Gly Ser Arg Pro Arg
140                 145                 150
Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Gly Asp
            155                 160                 165
Leu Gly Glu Arg Lys Met Lys Leu Asn Thr Glu Val Arg Glu Ile
        170                 175                 180
Gly Pro Leu Ser Arg Arg Gly Phe His Leu Ala Phe Gln Asp Val
    185                 190                 195
Gly Ala Cys Val Ala Leu Val Ser Val Arg Val Tyr Tyr Lys Gln
200                 205                 210
Cys Arg Ala Thr Val Arg Gly Leu Ala Thr Leu Pro Ala Thr Ala
            215                 220                 225
Ala Glu Ser Ala Phe Ser Thr Leu Val Glu Val Ala Gly Thr Cys
        230                 235                 240
Val Ala His Ser Glu Gly Glu Pro Gly Ser Pro Pro Arg Met His
    245                 250                 255
Cys Gly Ala Asp Gly Glu Trp Leu Val Pro Val Gly Arg Cys Ser
260                 265                 270
Cys Ser Ala Gly Phe Gln Glu Arg Gly Asp Ile Cys Glu Ala Pro
            275                 280                 285
Trp Glu Glu Asp Glu Ile Arg Arg Asp Arg Val Glu Pro Gln Ser
        290                 295                 300
Val Ser Leu Ser Trp Arg Glu Pro Ile Pro Ala Gly Ala Pro Gly
    305                 310                 315
Ala Asn Asp Thr Glu Tyr Glu Ile Arg Tyr Tyr Glu Lys Gly Gln
320                 325                 330
Ser Glu Gln Thr Tyr Ser Met Val Lys Thr Gly Ala Pro Thr Val
            335                 340                 345
Thr Val Thr Asn Leu Lys Pro Ala Thr Arg Tyr Val Phe Gln Ile
        350                 355                 360
Arg Ala Ala Ser Pro Gly Pro Ser Trp Glu Ala Gln Ser Phe Asn
    365                 370                 375
Pro Ser Ile Glu Val Gln Thr Leu Gly Glu Ala Ala Ser Gly Ser
380                 385                 390
Arg Asp Gln Ser Pro Ala Ile Val Val Thr Val Val Thr Ile Ser
            395                 400                 405
Ala Leu Leu Val Leu Gly Ser Val Met Ser Val Leu Ala Ile Trp
        410                 415                 420
Arg Arg Pro Cys Ser Tyr Gly Lys Gly Gly Gly Asp Ala His Asp
    425                 430                 435
Glu Glu Glu Leu Tyr Phe His Phe Lys Val Pro Thr Arg Arg Thr
440                 445                 450
Phe Leu Asp Pro Gln Ser Cys Gly Asp Leu Leu Gln Ala Val His
            455                 460                 465
Leu Phe Ala Lys Glu Leu Asp Ala Lys Ser Val Thr Leu Glu Arg
        470                 475                 480
Ser Leu Gly Gly Gly Arg Phe Gly Glu Leu Cys Cys Gly Cys Leu
    485                 490                 495
Gln Leu Pro Gly Arg Gln Glu Leu Leu Val Ala Val His Met Leu
500                 505                 510
```

```
Arg Asp Ser Ala Ser Asp Ser Gln Arg Leu Gly Phe Leu Ala Glu
                515                 520                 525
Ala Leu Thr Leu Gly Gln Phe Asp His Ser His Ile Val Arg Leu
                530                 535                 540
Glu Gly Val Val Thr Arg Gly Ser Thr Leu Met Ile Val Thr Glu
                545                 550                 555
Tyr Met Ser His Gly Ala Leu Gly Gly Phe Leu Arg Arg His Glu
                560                 565                 570
Gly Gln Leu Val Ala Gly Gln Leu Met Gly Leu Leu Pro Gly Leu
                575                 580                 585
Ala Ser Ala Met Lys Tyr Leu Ser Glu Met Gly Tyr Val His Arg
                590                 595                 600
Gly Leu Ala Ala Arg His Val Leu Val Ser Ser Asp Leu Val Cys
                605                 610                 615
Lys Ile Ser Gly Phe Gly Arg Gly Pro Arg Asp Arg Ser Glu Ala
                620                 625                 630
Val Tyr Thr Thr Met Ser Gly Arg Ser Pro Ala Leu Trp Ala Ala
                635                 640                 645
Pro Glu Thr Leu Gln Phe Gly His Phe Ser Ser Ala Ser Asp Val
                650                 655                 660
Trp Ser Phe Gly Ile Ile Met Trp Glu Val Met Ala Phe Gly Glu
                665                 670                 675
Arg Pro Tyr Trp Asp Met Ser Gly Gln Asp Val Ile Lys Ala Val
                680                 685                 690
Glu Asp Gly Phe Arg Leu Pro Pro Pro Arg Asn Cys Pro Asn Leu
                695                 700                 705
Leu His Arg Leu Met Leu Asp Cys Trp Gln Lys Asp Pro Gly Glu
                710                 715                 720
Arg Pro Arg Phe Ser Gln Ile His Ser Ile Leu Ser Lys Met Val
                725                 730                 735
Gln Asp Pro Glu Pro Pro Lys Cys Ala Leu Thr Thr Cys Pro Arg
                740                 745                 750
Pro Pro Thr Pro Leu Ala Asp Arg Ala Phe Ser Thr Phe Pro Ser
                755                 760                 765
Phe Gly Ser Val Gly Ala Trp Leu Glu Ala Leu Asp Leu Cys Arg
                770                 775                 780
Tyr Lys Asp Ser Phe Ala Ala Ala Gly Tyr Gly Ser Leu Glu Ala
                785                 790                 795
Val Ala Glu Met Thr Ala Gln Asp Leu Val Ser Leu Gly Ile Ser
                800                 805                 810
Leu Ala Glu His Arg Glu Ala Leu Leu Ser Gly Ile Ser Ala Leu
                815                 820                 825
Gln Ala Arg Val Leu Gln Leu Gln Gly Gln Gly Val Gln Val
                830                 835

<210> 48
<211> 1384
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524443CD1

<400> 48
Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu
  1               5                  10                  15
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val
                20                  25                  30
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val
                35                  40                  45
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Glu
                50                  55                  60
```

```
Asp Glu Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys
                65                  70                  75
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile
                80                  85                  90
Lys Lys Gly Pro Pro Gly His Asp Asn Gln Leu Trp Leu Val Met
                95                 100                 105
Glu Phe Cys Gly Ala Gly Ser Ile Thr Asp Pro Val Lys Asn Thr
               110                 115                 120
Lys Gly Asn Thr Leu Lys Glu Asp Trp Ile Ala Tyr Ile Ser Arg
               125                 130                 135
Glu Ile Leu Arg Gly Leu Ala His Leu His Ile His His Val Ile
               140                 145                 150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala
               155                 160                 165
Glu Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg
               170                 175                 180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met
               185                 190                 195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr
               200                 205                 210
Asp Tyr Arg Ser Asp Leu Gly Ser Cys Gly Ile Thr Ala Ile Glu
               215                 220                 225
Met Ala Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
               230                 235                 240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Pro Pro Arg Leu Lys Ser
               245                 250                 255
Lys Lys Trp Ser Lys Lys Phe Phe Ser Phe Ile Glu Gly Cys Leu
               260                 265                 270
Val Lys Asn Tyr Met Gln Arg Pro Ser Thr Glu Gln Leu Leu Lys
               275                 280                 285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
               290                 295                 300
Gln Leu Lys Asp His Ile Asp Arg Thr Arg Lys Lys Arg Gly Glu
               305                 310                 315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
               320                 325                 330
Glu Glu Val Pro Glu Gln Glu Gly Glu Pro Ser Ser Ile Val Asn
               335                 340                 345
Val Pro Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln
               350                 355                 360
Gln Glu Asn Lys Glu Arg Ser Glu Ala Leu Arg Arg Gln Gln Leu
               365                 370                 375
Leu Gln Glu Gln Gln Leu Arg Glu Gln Glu Glu Tyr Lys Arg Gln
               380                 385                 390
Leu Leu Ala Glu Arg Gln Lys Arg Ile Glu Gln Gln Lys Glu Gln
               395                 400                 405
Arg Arg Arg Leu Glu Glu Gln Gln Arg Arg Glu Arg Glu Ala Arg
               410                 415                 420
Arg Gln Gln Glu Arg Glu Gln Arg Arg Arg Glu Gln Glu Glu Lys
               425                 430                 435
Arg Arg Leu Glu Glu Leu Glu Arg Arg Arg Lys Glu Glu Glu Glu
               440                 445                 450
Arg Arg Arg Ala Glu Glu Glu Lys Arg Arg Val Glu Arg Glu Gln
               455                 460                 465
Glu Tyr Ile Arg Arg Gln Leu Glu Glu Glu Gln Arg His Leu Glu
               470                 475                 480
Val Leu Gln Gln Gln Leu Leu Gln Glu Gln Ala Met Leu Leu Glu
               485                 490                 495
Cys Arg Trp Arg Glu Met Glu Glu His Arg Gln Ala Glu Arg Leu
               500                 505                 510
Gln Arg Gln Leu Gln Gln Glu Gln Ala Tyr Leu Leu Ser Leu Gln
               515                 520                 525
His Asp His Arg Arg Pro His Pro Gln His Ser Gln Gln Pro Pro
```

```
                530                 535                 540
Pro Pro Gln Gln Glu Arg Ser Lys Pro Ser Phe His Ala Pro Glu
            545                 550                 555
Pro Lys Ala His Tyr Glu Pro Ala Asp Arg Ala Arg Glu Val Glu
            560                 565                 570
Asp Arg Phe Arg Lys Thr Asn His Ser Ser Pro Glu Ala Gln Ser
            575                 580                 585
Lys Gln Thr Gly Arg Val Leu Glu Pro Pro Val Pro Ser Arg Ser
            590                 595                 600
Glu Ser Phe Ser Asn Gly Asn Ser Glu Ser Val His Pro Ala Leu
            605                 610                 615
Gln Arg Pro Ala Glu Pro Gln Val Gln Trp Ser His Leu Ala Ser
            620                 625                 630
Leu Lys Asn Asn Val Ser Pro Val Ser Arg Ser His Ser Phe Ser
            635                 640                 645
Asp Pro Ser Pro Lys Phe Ala His His His Leu Arg Ser Gln Asp
            650                 655                 660
Pro Cys Pro Pro Ser Arg Ser Glu Val Leu Ser Gln Ser Ser Asp
            665                 670                 675
Ser Lys Ser Glu Ala Pro Asp Pro Thr Gln Lys Ala Trp Ser Arg
            680                 685                 690
Ser Asp Ser Asp Glu Val Pro Pro Arg Val Pro Val Arg Thr Thr
            695                 700                 705
Ser Arg Ser Pro Val Leu Ser Arg Arg Asp Ser Pro Leu Gln Gly
            710                 715                 720
Ser Gly Gln Gln Asn Ser Gln Ala Gly Gln Arg Asn Ser Thr Ser
            725                 730                 735
Ser Ile Glu Pro Arg Leu Leu Trp Glu Arg Val Glu Lys Leu Val
            740                 745                 750
Pro Arg Pro Gly Ser Gly Ser Ser Ser Gly Ser Ser Asn Ser Gly
            755                 760                 765
Ser Gln Pro Gly Ser His Pro Gly Ser Gln Ser Gly Ser Gly Glu
            770                 775                 780
Arg Phe Arg Val Arg Ser Ser Ser Lys Ser Glu Gly Ser Pro Ser
            785                 790                 795
Arg Arg Leu Glu Asn Ala Val Lys Lys Pro Glu Asp Lys Lys Glu
            800                 805                 810
Val Phe Arg Pro Leu Lys Pro Ala Gly Glu Val Asp Leu Thr Ala
            815                 820                 825
Leu Ala Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His
            830                 835                 840
Lys Val Thr Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr
            845                 850                 855
Asp Glu Glu Asp Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser
            860                 865                 870
Thr Ser Gly Pro Glu Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu
            875                 880                 885
Ser Asn Gly Glu Thr Glu Ser Val Lys Thr Met Ile Val His Asp
            890                 895                 900
Asp Val Glu Ser Glu Pro Ala Met Thr Pro Ser Lys Glu Gly Thr
            905                 910                 915
Leu Ile Val Arg Gln Ser Thr Val Asp Gln Lys Arg Ala Ser His
            920                 925                 930
His Glu Ser Asn Gly Phe Ala Gly Arg Ile His Leu Leu Pro Asp
            935                 940                 945
Leu Leu Gln Gln Ser His Ser Ser Ser Thr Ser Ser Thr Ser Ser
            950                 955                 960
Ser Pro Ser Ser Ser Gln Pro Thr Pro Thr Met Ser Pro Gln Thr
            965                 970                 975
Pro Gln Asp Lys Leu Thr Ala Asn Glu Thr Gln Ser Ala Ser Ser
            980                 985                 990
Thr Leu Gln Lys His Lys Ser Ser Ser Ser Phe Thr Pro Phe Ile
            995                1000                1005
```

```
Asp Pro Arg Leu Leu Gln Ile Ser Pro Ser Ser Gly Thr Thr Val
                1010                1015                1020
Thr Ser Val Val Gly Phe Ser Cys Asp Gly Met Arg Pro Glu Ala
                1025                1030                1035
Ile Arg Gln Asp Pro Thr Arg Lys Gly Ser Val Val Asn Val Asn
                1040                1045                1050
Pro Thr Asn Thr Arg Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys
                1055                1060                1065
Tyr Lys Lys Arg Phe Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp
                1070                1075                1080
Gly Val Asn Leu Leu Val Gly Thr Glu Ser Gly Leu Met Leu Leu
                1085                1090                1095
Asp Arg Ser Gly Gln Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg
                1100                1105                1110
Arg Phe Gln Gln Met Asp Val Leu Gly Gly Leu Asn Val Leu Val
                1115                1120                1125
Thr Ile Ser Gly Lys Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser
                1130                1135                1140
Trp Leu Arg Asn Lys Ile Leu His Asn Asp Pro Glu Val Glu Lys
                1145                1150                1155
Lys Gln Gly Trp Thr Thr Val Gly Asp Leu Glu Gly Cys Val His
                1160                1165                1170
Tyr Lys Val Val Lys Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala
                1175                1180                1185
Leu Lys Ser Ser Val Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr
                1190                1195                1200
His Lys Phe Met Ala Phe Lys Ser Phe Gly Glu Leu Val His Lys
                1205                1210                1215
Pro Leu Leu Val Asp Leu Thr Val Glu Glu Gly Gln Arg Leu Lys
                1220                1225                1230
Val Ile Tyr Gly Ser Cys Ala Gly Phe His Ala Val Asp Val Asp
                1235                1240                1245
Ser Gly Ser Val Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys
                1250                1255                1260
Ser Ile Lys Pro His Ala Ile Ile Ile Leu Pro Asn Thr Asp Gly
                1265                1270                1275
Met Glu Leu Leu Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn
                1280                1285                1290
Thr Tyr Gly Arg Ile Thr Lys Asp Val Val Leu Gln Trp Gly Glu
                1295                1300                1305
Met Pro Thr Ser Val Ala Tyr Ile Arg Ser Asn Gln Thr Met Gly
                1310                1315                1320
Trp Gly Glu Lys Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His
                1325                1330                1335
Leu Asp Gly Val Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe
                1340                1345                1350
Leu Cys Glu Arg Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser
                1355                1360                1365
Gly Gly Ser Ser Gln Val Tyr Phe Met Thr Leu Gly Arg Thr Ser
                1370                1375                1380
Leu Leu Ser Trp
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<210> 49
<211> 1230
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524498CD1

<400> 49

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Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu
 1               5                  10                  15
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val
            20                  25                  30
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val
        35                  40                  45
Lys Thr Gly Gln Leu Ala Thr Ile Lys Val Met Asp Val Thr Glu
    50                  55                  60
Asp Glu Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys
65                  70                  75
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile
            80                  85                  90
Lys Lys Ser Pro Pro Gly His Asp Asp Gln Leu Trp Leu Val Met
        95                  100                 105
Glu Phe Cys Gly Ala Gly Ser Ile Thr Asp Leu Val Lys Asn Thr
    110                 115                 120
Lys Gly Asn Thr Leu Lys Glu Asp Trp Ile Ala Tyr Ile Ser Arg
125                 130                 135
Glu Ile Leu Arg Gly Leu Ala His Leu His Ile His His Val Ile
            140                 145                 150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala
        155                 160                 165
Glu Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg
    170                 175                 180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met
185                 190                 195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr
            200                 205                 210
Asp Tyr Arg Ser Asp Leu Trp Ser Cys Gly Ile Thr Ala Ile Glu
        215                 220                 225
Met Ala Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
    230                 235                 240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Pro Pro Arg Leu Lys Ser
245                 250                 255
Lys Lys Trp Ser Lys Lys Phe Phe Ser Phe Ile Glu Gly Cys Leu
            260                 265                 270
Val Lys Asn Tyr Met Gln Arg Pro Ser Thr Glu Gln Leu Leu Lys
        275                 280                 285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
    290                 295                 300
Gln Leu Lys Asp His Ile Asp Arg Thr Arg Lys Lys Arg Gly Glu
305                 310                 315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
            320                 325                 330
Glu Glu Val Pro Glu Gln Glu Gly Glu Pro Ser Ser Ile Val Asn
        335                 340                 345
Val Pro Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln
    350                 355                 360
Gln Glu Asn Lys Glu Arg Ser Glu Ala Leu Arg Arg Gln Gln Leu
365                 370                 375
Leu Gln Glu Gln Gln Leu Arg Glu Gln Glu Glu Tyr Lys Arg Gln
            380                 385                 390
Leu Leu Ala Glu Arg Gln Lys Arg Ile Glu Gln Gln Lys Glu Gln
        395                 400                 405
Arg Arg Arg Leu Glu Glu Gln Gln Arg Arg Glu Arg Glu Ala Arg
    410                 415                 420
Arg Gln Gln Glu Arg Glu Gln Arg Arg Arg Glu Gln Glu Glu Lys
425                 430                 435
Arg Arg Leu Glu Glu Leu Glu Arg Arg Arg Lys Glu Glu Glu Glu
            440                 445                 450
Arg Arg Arg Ala Glu Glu Glu Lys Arg Arg Val Glu Arg Glu Gln
        455                 460                 465
Glu Tyr Ile Arg Arg Gln Leu Glu Glu Glu Gln Arg His Leu Glu
```

```
                470                 475                 480
Val Leu Gln Gln Gln Leu Leu Gln Glu Gln Ala Met Leu Leu His
                485                 490                 495
Asp His Arg Arg Pro His Pro Gln His Ser Gln Gln Pro Pro Pro
                500                 505                 510
Pro Gln Gln Glu Arg Ser Lys Pro Ser Phe His Ala Pro Glu Pro
                515                 520                 525
Lys Ala His Tyr Glu Pro Ala Asp Arg Ala Arg Glu Trp Ser His
                530                 535                 540
Leu Ala Ser Leu Lys Asn Asn Val Ser Pro Val Ser Arg Ser His
                545                 550                 555
Ser Phe Ser Asp Pro Ser Pro Lys Phe Ala His His His Leu Arg
                560                 565                 570
Ser Gln Asp Pro Cys Pro Pro Ser Arg Ser Glu Val Leu Ser Gln
                575                 580                 585
Ser Ser Asp Ser Lys Ser Glu Ala Pro Asp Pro Thr Gln Lys Ala
                590                 595                 600
Trp Ser Arg Ser Asp Ser Asp Glu Val Pro Pro Arg Val Pro Val
                605                 610                 615
Arg Thr Thr Ser Arg Ser Pro Val Leu Ser Arg Arg Asp Ser Pro
                620                 625                 630
Leu Gln Gly Ser Gly Gln Gln Asn Ser Gln Ala Gly Gln Arg Asn
                635                 640                 645
Ser Thr Ser Ser Ile Glu Pro Arg Leu Leu Trp Glu Arg Val Glu
                650                 655                 660
Lys Leu Val Pro Arg Pro Gly Ser Gly Ser Ser Ser Gly Ser Ser
                665                 670                 675
Asn Ser Gly Ser Gln Pro Gly Ser His Pro Gly Ser Gln Ser Gly
                680                 685                 690
Ser Gly Glu Arg Phe Arg Val Arg Ser Ser Ser Lys Ser Glu Gly
                695                 700                 705
Ser Pro Ser Gln Arg Leu Glu Asn Ala Val Lys Lys Pro Glu Asp
                710                 715                 720
Lys Lys Glu Val Phe Arg Pro Leu Lys Pro Ala Asp Leu Thr Ala
                725                 730                 735
Leu Ala Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His
                740                 745                 750
Lys Val Thr Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr
                755                 760                 765
Asp Glu Glu Asp Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser
                770                 775                 780
Thr Ser Gly Pro Glu Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu
                785                 790                 795
Ser Asn Gly Glu Thr Glu Ser Val Lys Thr Met Ile Val His Asp
                800                 805                 810
Asp Val Glu Ser Glu Pro Ala Met Thr Pro Ser Lys Glu Gly Thr
                815                 820                 825
Leu Ile Val Arg Gln Thr Gln Ser Ala Ser Ser Thr Leu Gln Lys
                830                 835                 840
His Lys Ser Ser Ser Ser Phe Thr Pro Phe Ile Asp Pro Arg Leu
                845                 850                 855
Leu Gln Ile Ser Pro Ser Ser Gly Thr Thr Val Thr Ser Val Val
                860                 865                 870
Gly Phe Ser Cys Asp Gly Met Arg Pro Glu Ala Ile Arg Gln Asp
                875                 880                 885
Pro Thr Arg Lys Gly Ser Val Val Asn Val Asn Pro Thr Asn Thr
                890                 895                 900
Arg Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys Tyr Lys Lys Arg
                905                 910                 915
Phe Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val Asn Leu
                920                 925                 930
Leu Val Gly Thr Glu Ser Gly Leu Met Leu Leu Asp Arg Ser Gly
                935                 940                 945
```

```
Gln Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg Arg Phe Gln Gln
                950                 955                 960
Met Asp Val Leu Glu Gly Leu Asn Val Leu Val Thr Ile Ser Gly
                965                 970                 975
Lys Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser Trp Leu Arg Asn
                980                 985                 990
Lys Ile Leu His Asn Asp Pro Glu Val Glu Lys Lys Gln Gly Trp
                995                1000                1005
Thr Thr Val Gly Asp Leu Glu Gly Cys Val His Tyr Lys Val Val
               1010                1015                1020
Lys Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala Leu Lys Ser Ser
               1025                1030                1035
Val Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr His Lys Phe Met
               1040                1045                1050
Ala Phe Lys Ser Phe Gly Glu Leu Val His Lys Pro Leu Leu Val
               1055                1060                1065
Asp Leu Thr Val Glu Glu Gly Gln Arg Leu Lys Val Ile Tyr Gly
               1070                1075                1080
Ser Cys Ala Gly Phe His Ala Val Asp Val Asp Ser Gly Ser Val
               1085                1090                1095
Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys Ser Ile Lys Pro
               1100                1105                1110
His Ala Ile Ile Ile Leu Pro Asn Thr Asp Gly Met Glu Leu Leu
               1115                1120                1125
Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn Thr Tyr Gly Arg
               1130                1135                1140
Ile Thr Lys Asp Val Val Leu Gln Trp Gly Glu Met Pro Thr Ser
               1145                1150                1155
Val Ala Tyr Ile Arg Ser Asn Gln Thr Met Gly Trp Gly Glu Lys
               1160                1165                1170
Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His Leu Asp Gly Val
               1175                1180                1185
Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg
               1190                1195                1200
Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser Gly Gly Ser Ser
               1205                1210                1215
Gln Val Tyr Phe Met Thr Leu Gly Arg Thr Ser Leu Leu Ser Trp
               1220                1225                1230
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<210> 50
<211> 1199
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524957CD1

<400> 50

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Met Gly Arg Gly Met Gly Glu Glu Gly Pro Pro Ser Leu Glu Tyr
  1                 5                  10                  15
Ile Gln Ala Lys Asp Leu Phe Pro Pro Lys Glu Leu Val Lys Glu
                 20                  25                  30
Glu Glu Asn Leu Gln Val Pro Phe Thr Val Leu Gln Gly Glu Gly
                 35                  40                  45
Val Glu Phe Leu Gly Arg Ala Ala Asp Ala Leu Ile Ala Ile Ser
                 50                  55                  60
Asn Tyr Arg Leu His Ile Lys Phe Lys Asp Ser Val Ile Asn Val
                 65                  70                  75
Pro Leu Arg Met Ile Asp Ser Val Glu Ser Arg Asp Met Phe Gln
                 80                  85                  90
Leu His Ile Ser Cys Lys Asp Ser Lys Val Val Arg Cys His Phe
```

```
                 95                  100                 105
Ser Thr Phe Lys Gln Cys Gln Glu Trp Leu Ser Arg Leu Ser Arg
                110                 115                 120
Ala Thr Ala Arg Pro Ala Lys Pro Glu Asp Leu Phe Ala Phe Ala
                125                 130                 135
Tyr His Ala Trp Cys Leu Gly Leu Thr Glu Glu Asp Gln His Thr
                140                 145                 150
His Leu Cys Gln Pro Gly Glu His Ile Arg Cys Arg Gln Glu Ala
                155                 160                 165
Glu Leu Ala Arg Met Gly Phe Asp Leu Gln Asn Val Trp Arg Val
                170                 175                 180
Ser His Ile Asn Ser Asn Tyr Lys Leu Cys Pro Ser Tyr Pro Gln
                185                 190                 195
Lys Leu Leu Val Pro Val Trp Ile Thr Asp Lys Glu Leu Glu Asn
                200                 205                 210
Val Ala Ser Phe Arg Ser Trp Lys Arg Ile Pro Val Val Val Tyr
                215                 220                 225
Arg His Leu Arg Asn Gly Ala Ala Ile Ala Arg Cys Ser Gln Pro
                230                 235                 240
Glu Ile Ser Trp Trp Gly Trp Arg Asn Ala Asp Asp Glu Tyr Leu
                245                 250                 255
Val Thr Ser Ile Ala Lys Ala Cys Ala Leu Asp Pro Gly Thr Arg
                260                 265                 270
Ala Thr Gly Gly Ser Leu Ser Thr Gly Asn Asn Asp Thr Ser Glu
                275                 280                 285
Ala Cys Asp Ala Asp Phe Asp Ser Ser Leu Thr Ala Cys Ser Gly
                290                 295                 300
Val Glu Ser Thr Ala Ala Pro Gln Lys Leu Leu Ile Leu Asp Ala
                305                 310                 315
Arg Ser Tyr Thr Ala Ala Val Ala Asn Arg Ala Lys Gly Gly Gly
                320                 325                 330
Cys Glu Cys Glu Glu Tyr Tyr Pro Asn Cys Glu Val Val Phe Met
                335                 340                 345
Gly Met Ala Asn Ile His Ala Ile Arg Asn Ser Phe Gln Tyr Leu
                350                 355                 360
Arg Ala Val Cys Ser Gln Met Pro Asp Pro Ser Asn Trp Leu Ser
                365                 370                 375
Ala Leu Glu Ser Thr Lys Trp Leu Gln His Leu Ser Val Met Leu
                380                 385                 390
Lys Ala Ala Val Leu Val Ala Asn Thr Val Asp Arg Glu Gly Arg
                395                 400                 405
Pro Val Leu Val His Cys Ser Asp Gly Trp Asp Arg Thr Pro Gln
                410                 415                 420
Ile Val Ala Leu Ala Lys Ile Leu Leu Asp Pro Tyr Tyr Arg Thr
                425                 430                 435
Leu Glu Gly Phe Gln Val Leu Val Glu Ser Asp Trp Leu Asp Phe
                440                 445                 450
Gly His Lys Phe Gly Asp Arg Cys Gly His Gln Glu Asn Val Glu
                455                 460                 465
Asp Gln Asn Glu Gln Cys Pro Val Phe Leu Gln Trp Leu Asp Ser
                470                 475                 480
Val His Gln Leu Leu Lys Gln Phe Ala Cys Leu Phe Glu Phe Asn
                485                 490                 495
Glu Ala Phe Leu Val Lys Leu Val Gln His Thr Tyr Ser Cys Leu
                500                 505                 510
Tyr Gly Thr Phe Leu Ala Asn Asn Pro Cys Glu Arg Glu Lys Arg
                515                 520                 525
Asn Ile Tyr Lys Arg Thr Cys Ser Val Trp Ala Leu Leu Arg Ala
                530                 535                 540
Gly Asn Lys Asn Phe His Asn Phe Leu Tyr Thr Pro Ser Ser Asp
                545                 550                 555
Met Val Leu His Pro Val Cys His Val Arg Ala Leu His Leu Trp
                560                 565                 570
```

```
Thr Ala Val Tyr Leu Pro Ala Ser Ser Pro Cys Thr Leu Gly Glu
                575                 580                 585
Glu Asn Met Asp Leu Tyr Leu Ser Pro Val Ala Gln Ser Gln Glu
                590                 595                 600
Phe Ser Gly Arg Ser Leu Asp Arg Leu Pro Lys Thr Arg Ser Met
                605                 610                 615
Asp Asp Leu Leu Ser Ala Cys Asp Thr Ser Ser Pro Leu Thr Arg
                620                 625                 630
Thr Ser Ser Asp Pro Asn Leu Asn Asn His Cys Gln Glu Val Arg
                635                 640                 645
Val Gly Leu Glu Pro Trp His Ser Asn Pro Glu Gly Ser Glu Thr
                650                 655                 660
Ser Phe Val Asp Ser Gly Val Gly Gly Pro Gln Gln Thr Val Gly
                665                 670                 675
Glu Val Gly Leu Pro Pro Pro Leu Pro Ser Ser Gln Lys Asp Tyr
                680                 685                 690
Leu Ser Asn Lys Pro Phe Lys Ser His Lys Ser Cys Ser Pro Ser
                695                 700                 705
Tyr Lys Leu Leu Asn Thr Ala Val Pro Arg Glu Met Lys Ser Asn
                710                 715                 720
Thr Ser Asp Pro Glu Ile Lys Val Leu Glu Glu Thr Lys Gly Pro
                725                 730                 735
Ala Pro Asp Pro Ser Ala Gln Asp Glu Leu Gly Arg Thr Leu Asp
                740                 745                 750
Gly Ile Gly Glu Pro Pro Glu His Cys Pro Glu Thr Glu Ala Val
                755                 760                 765
Ser Ala Leu Ser Lys Val Ile Ser Asn Lys Cys Asp Gly Val Cys
                770                 775                 780
Asn Phe Pro Glu Ser Ser Gln Asn Ser Pro Thr Gly Thr Pro Gln
                785                 790                 795
Gln Ala Gln Pro Asp Ser Met Leu Gly Val Pro Ser Lys Cys Val
                800                 805                 810
Leu Asp His Ser Leu Ser Thr Val Cys Asn Pro Pro Ser Ala Ala
                815                 820                 825
Cys Gln Thr Pro Leu Asp Pro Ser Thr Asp Phe Leu Asn Gln Asp
                830                 835                 840
Pro Ser Gly Ser Val Ala Ser Ile Ser His Gln Glu Gln Leu Ser
                845                 850                 855
Ser Val Pro Asp Leu Thr His Gly Glu Glu Asp Ile Gly Lys Arg
                860                 865                 870
Gly Asn Asn Arg Asn Gly Gln Leu Leu Glu Asn Pro Arg Phe Gly
                875                 880                 885
Lys Met Pro Leu Glu Leu Val Arg Lys Pro Ile Ser Gln Ser Gln
                890                 895                 900
Ile Ser Glu Phe Ser Phe Leu Gly Ser Asn Trp Asp Ser Phe Gln
                905                 910                 915
Gly Met Val Thr Ser Phe Pro Ser Gly Glu Ala Thr Pro Arg Arg
                920                 925                 930
Leu Leu Ser Tyr Gly Cys Cys Ser Lys Arg Pro Asn Ser Lys Gln
                935                 940                 945
Met Arg Ala Thr Gly Pro Cys Phe Gly Gly Gln Trp Ala Gln Arg
                950                 955                 960
Glu Gly Val Lys Ser Pro Val Cys Ser Ser His Ser Asn Gly His
                965                 970                 975
Cys Thr Gly Pro Gly Gly Lys Asn Gln Met Trp Leu Ser Ser His
                980                 985                 990
Pro Lys Gln Val Ser Ser Thr Lys Pro Val Pro Leu Asn Cys Pro
                995                1000                1005
Ser Pro Val Pro Pro Leu Tyr Leu Asp Asp Asp Gly Leu Pro Phe
               1010                1015                1020
Pro Thr Asp Val Ile Gln His Arg Leu Arg Gln Ile Glu Ala Gly
               1025                1030                1035
Tyr Lys Gln Glu Val Glu Gln Leu Arg Arg Gln Val Arg Glu Leu
```

```
                1040                1045                1050
Gln Met Arg Leu Asp Ile Arg His Cys Cys Ala Pro Pro Ala Glu
                1055                1060                1065
Pro Pro Met Asp Tyr Glu Asp Asp Phe Thr Cys Leu Lys Glu Ser
                1070                1075                1080
Asp Gly Ser Asp Thr Glu Asp Phe Gly Ser Asp His Ser Glu Asp
                1085                1090                1095
Cys Leu Ser Glu Ala Ser Trp Glu Pro Val Asp Lys Lys Glu Thr
                1100                1105                1110
Glu Val Thr Arg Trp Val Pro Asp His Met Ala Ser His Cys Tyr
                1115                1120                1125
Asn Cys Asp Cys Glu Phe Trp Leu Ala Lys Arg Arg His His Cys
                1130                1135                1140
Arg Asn Cys Gly Asn Val Phe Cys Ala Gly Cys Cys His Leu Lys
                1145                1150                1155
Leu Pro Ile Pro Asp Gln Gln Leu Tyr Asp Pro Val Leu Val Cys
                1160                1165                1170
Asn Ser Cys Tyr Glu His Ile Gln Val Ser Arg Ala Arg Glu Leu
                1175                1180                1185
Met Ser Gln Gln Leu Lys Lys Pro Ile Ala Thr Ala Ser Ser
                1190                1195
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<210> 51
<211> 592
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7525097CD1

<400> 51

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Met Leu Pro Glu Ala Gly Ser Leu Trp Leu Leu Lys Leu Leu Arg
  1               5                  10                  15
Asp Ile Gln Leu Ala Gln Phe Tyr Trp Pro Ile Leu Glu Glu Leu
             20                  25                  30
Asn Val Thr Arg Pro Glu His Phe Asp Phe Val Lys Pro Glu Asp
             35                  40                  45
Leu Asp Gly Ile Gly Met Gly Arg Pro Ala Gln Arg Arg Leu Ser
             50                  55                  60
Glu Ala Leu Lys Arg Leu Arg Ser Gly Pro Lys Ser Lys Asn Trp
             65                  70                  75
Val Tyr Lys Ile Leu Gly Gly Phe Ala Pro Glu His Lys Glu Pro
             80                  85                  90
Thr Leu Pro Ser Asp Ser Pro Arg His Leu Pro Glu Pro Glu Gly
             95                 100                 105
Gly Leu Lys Cys Leu Ile Pro Glu Gly Ala Val Cys Arg Gly Glu
            110                 115                 120
Leu Leu Gly Ser Gly Cys Phe Gly Val Val His Arg Gly Leu Trp
            125                 130                 135
Thr Leu Pro Ser Gly Lys Ser Val Pro Val Ala Val Lys Ser Leu
            140                 145                 150
Arg Val Gly Pro Glu Gly Pro Met Gly Thr Glu Leu Gly Asp Phe
            155                 160                 165
Leu Arg Glu Val Ser Val Met Met Asn Leu Glu His Pro His Val
            170                 175                 180
Leu Arg Leu His Gly Leu Val Leu Gly Gln Pro Leu Gln Met Val
            185                 190                 195
Met Glu Leu Ala Pro Leu Gly Ser Leu His Ala Arg Leu Thr Ala
            200                 205                 210
Pro Ala Pro Thr Pro Pro Leu Leu Val Ala Leu Leu Cys Leu Phe
            215                 220                 225
Leu Arg Gln Leu Ala Gly Ala Met Ala Tyr Leu Gly Ala Arg Gly
```

```
                230                 235                 240
Leu Val His Arg Asp Leu Ala Thr Arg Asn Leu Leu Leu Ala Ser
                245                 250                 255
Pro Arg Thr Ile Lys Val Ala Asp Phe Gly Leu Val Arg Pro Leu
                260                 265                 270
Gly Gly Ala Arg Gly Arg Tyr Val Met Gly Gly Pro Arg Pro Ile
                275                 280                 285
Pro Tyr Ala Trp Cys Ala Pro Glu Ser Leu Arg His Gly Ala Phe
                290                 295                 300
Ser Ser Ala Ser Asp Val Trp Met Phe Gly Ala Gly Pro Ser Glu
                305                 310                 315
Ala Cys Cys Val Arg Asp Val Thr Glu Pro Gly Ala Leu Arg Met
                320                 325                 330
Glu Thr Gly Asp Pro Ile Thr Val Ile Glu Gly Ser Pro Asp Ser
                335                 340                 345
Thr Ile Trp Lys Gly Gln Asn Gly Arg Thr Phe Lys Val Gly Ser
                350                 355                 360
Phe Pro Ala Ser Ala Val Thr Leu Ala Asp Ala Gly Gly Leu Pro
                365                 370                 375
Ala Thr Arg Pro Val His Arg Gly Thr Pro Ala Arg Gly Asp Gln
                380                 385                 390
His Pro Gly Ser Ile Asp Gly Asp Arg Lys Lys Ala Asn Leu Trp
                395                 400                 405
Asp Ala Pro Pro Ala Arg Gly Gln Arg Arg Asn Met Pro Leu Glu
                410                 415                 420
Arg Met Lys Gly Ile Ser Arg Ser Leu Glu Ser Val Leu Ser Leu
                425                 430                 435
Gly Pro Arg Pro Thr Gly Gly Gly Ser Ser Pro Pro Glu Ile Arg
                440                 445                 450
Gln Ala Arg Ala Val Pro Gln Gly Pro Pro Gly Leu Pro Pro Arg
                455                 460                 465
Pro Pro Leu Ser Ser Ser Ser Pro Gln Pro Ser Gln Pro Ser Arg
                470                 475                 480
Glu Arg Leu Pro Trp Pro Lys Arg Lys Pro Pro His Asn His Pro
                485                 490                 495
Met Gly Met Pro Gly Ala Arg Lys Ala Ala Ala Leu Ser Gly Gly
                500                 505                 510
Leu Leu Ser Asp Pro Glu Leu Gln Arg Lys Ile Met Glu Met Glu
                515                 520                 525
Leu Ser Val His Gly Val Thr His Gln Glu Cys Gln Thr Ala Leu
                530                 535                 540
Gly Ala Thr Gly Gly Asp Val Val Ser Ala Ile Arg Asn Leu Lys
                545                 550                 555
Val Asp Gln Leu Phe His Leu Ser Ser Arg Ser Arg Ala Asp Cys
                560                 565                 570
Trp Arg Ile Leu Glu His Tyr Gln Trp Asp Leu Ser Ala Ala Ser
                575                 580                 585
Arg Tyr Val Leu Ala Arg Pro
                590
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<210> 52
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7525117CD1

<400> 52

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Met Ala Gln Lys Glu Asn Ser Tyr Pro Trp Pro Tyr Gly Arg Gln
  1               5                  10                  15
Thr Ala Pro Ser Gly Leu Ser Thr Leu Pro Gln Arg Val Leu Arg
```

```
                  20                  25                  30
Lys Glu Pro Val Thr Pro Ser Ala Leu Val Leu Met Ser Arg Ser
                  35                  40                  45
Asn Val Gln Pro Thr Ala Ala Pro Gly Gln Lys Val Met Glu Asn
                  50                  55                  60
Ser Ser Gly Thr Pro Asp Ile Leu Thr Arg His Phe Thr Ile Asp
                  65                  70                  75
Asp Phe Glu Ile Gly Arg Pro Leu Gly Lys Gly Lys Phe Gly Asn
                  80                  85                  90
Val Tyr Leu Ala Arg Glu Lys Lys Ser His Phe Ile Val Ala Leu
                  95                 100                 105
Lys Pro Ser Gln His Pro Ala Ser Leu Gln Leu Phe Leu
                 110                 115

<210> 53
<211> 564
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516593CD1

<400> 53
Met Ser Ala Ala Val Thr Ala Gly Lys Leu Ala Arg Ala Pro Ala
  1               5                  10                  15
Asp Pro Gly Lys Ala Gly Val Pro Gly Val Ala Ala Pro Gly Ala
                  20                  25                  30
Pro Ala Ala Ala Pro Pro Ala Lys Glu Ile Pro Glu Val Leu Val
                  35                  40                  45
Asp Pro Arg Ser Arg Arg Arg Tyr Val Arg Gly Arg Phe Leu Gly
                  50                  55                  60
Lys Gly Gly Phe Ala Lys Cys Phe Glu Ile Ser Asp Ala Asp Thr
                  65                  70                  75
Lys Glu Val Phe Ala Gly Lys Ile Val Pro Lys Ser Leu Leu Leu
                  80                  85                  90
Lys Pro His Gln Arg Glu Lys Met Ser Met Glu Ile Ser Ile His
                  95                 100                 105
Arg Ser Leu Ala His Gln His Val Val Gly Phe His Gly Phe Phe
                 110                 115                 120
Glu Asp Asn Asp Phe Val Phe Val Val Leu Glu Leu Cys Arg Arg
                 125                 130                 135
Arg Ser Leu Leu Glu Leu His Lys Arg Arg Lys Ala Leu Thr Glu
                 140                 145                 150
Pro Glu Ala Arg Tyr Tyr Leu Arg Gln Ile Val Leu Gly Cys Gln
                 155                 160                 165
Tyr Leu His Arg Asn Arg Val Ile His Arg Asp Leu Lys Leu Gly
                 170                 175                 180
Asn Leu Phe Leu Asn Glu Asp Leu Glu Val Lys Ile Gly Asp Phe
                 185                 190                 195
Gly Leu Ala Thr Lys Val Glu Tyr Asp Gly Glu Arg Lys Lys Thr
                 200                 205                 210
Leu Cys Gly Thr Pro Asn Tyr Ile Ala Pro Glu Val Leu Ser Lys
                 215                 220                 225
Lys Gly His Ser Phe Glu Val Asp Val Trp Ser Ile Gly Cys Ile
                 230                 235                 240
Met Tyr Thr Leu Leu Val Gly Lys Pro Pro Phe Glu Thr Ser Cys
                 245                 250                 255
Leu Lys Glu Thr Tyr Leu Arg Ile Lys Lys Asn Glu Tyr Ser Ile
                 260                 265                 270
Pro Lys His Ile Asn Pro Val Ala Ala Ser Leu Ile Gln Lys Met
                 275                 280                 285
Leu Gln Thr Asp Pro Thr Ala Arg Pro Thr Ile Asn Glu Leu Leu
```

```
                290                 295                 300
Asn Asp Glu Phe Phe Thr Ser Gly Tyr Ile Pro Ala Arg Leu Pro
                305                 310                 315
Ile Thr Cys Leu Thr Ile Pro Pro Arg Phe Ser Ile Ala Pro Ser
                320                 325                 330
Ser Leu Asp Pro Ser Asn Arg Lys Pro Leu Thr Val Leu Asn Lys
                335                 340                 345
Gly Leu Glu Asn Pro Leu Pro Glu Arg Pro Arg Glu Lys Glu Glu
                350                 355                 360
Pro Val Val Arg Glu Thr Gly Glu Val Val Asp Cys His Leu Ser
                365                 370                 375
Asp Met Leu Gln Gln Leu His Ser Val Asn Ala Ser Lys Pro Ser
                380                 385                 390
Glu Arg Gly Leu Val Arg Gln Glu Glu Ala Glu Asp Pro Ala Cys
                395                 400                 405
Ile Pro Ile Phe Trp Val Ser Lys Trp Val Asp Tyr Ser Asp Lys
                410                 415                 420
Tyr Gly Leu Gly Tyr Gln Leu Cys Asp Asn Ser Val Gly Val Leu
                425                 430                 435
Phe Asn Asp Ser Thr Arg Leu Ile Leu Tyr Asn Asp Gly Asp Ser
                440                 445                 450
Leu Gln Tyr Ile Glu Arg Asp Gly Thr Glu Ser Tyr Leu Thr Val
                455                 460                 465
Ser Ser His Pro Asn Ser Leu Met Lys Lys Ile Thr Leu Leu Lys
                470                 475                 480
Tyr Phe Arg Asn Tyr Met Ser Glu His Leu Leu Lys Ala Gly Ala
                485                 490                 495
Asn Ile Thr Pro Arg Glu Gly Asp Glu Leu Ala Arg Leu Pro Tyr
                500                 505                 510
Leu Arg Thr Trp Phe Arg Thr Arg Ser Ala Ile Ile Leu His Leu
                515                 520                 525
Ser Asn Gly Ser Val Gln Ile Asn Phe Phe Gln Val Ser Trp Arg
                530                 535                 540
Ser Pro Gly Ala Gly Glu Ser Trp Gly Arg Leu Arg Met Pro Gly
                545                 550                 555
Ser Gly Pro Cys Gly Leu Asn Val Glu
                560
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<210> 54
<211> 244
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516603CD1

<400> 54

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Met Ser Gly Pro Arg Pro Val Val Leu Ser Gly Pro Ser Gly Ala
  1               5                  10                  15
Gly Lys Ser Thr Leu Leu Lys Arg Leu Leu Gln Glu His Ser Gly
                 20                  25                  30
Ile Phe Gly Phe Ser Val Ser His Thr Thr Arg Asn Pro Arg Pro
                 35                  40                  45
Gly Glu Glu Asn Gly Lys Asp Tyr Tyr Phe Val Thr Arg Glu Val
                 50                  55                  60
Met Gln Arg Asp Ile Ala Ala Gly Asp Phe Ile Glu His Ala Glu
                 65                  70                  75
Phe Ser Gly Asn Leu Tyr Gly Thr Ser Lys Val Ala Val Gln Ala
                 80                  85                  90
Val Gln Ala Met Asn Arg Ile Cys Val Leu Asp Val Asp Leu Gln
                 95                 100                 105
Gly Val Arg Asn Ile Lys Ala Thr Asp Leu Arg Pro Ile Tyr Ile
```

```
                110                 115                 120
Ser Val Gln Pro Pro Ser Leu His Val Leu Glu Gln Arg Leu Arg
                125                 130                 135
Gln Arg Asn Thr Glu Thr Glu Glu Ser Leu Val Lys Arg Leu Ala
                140                 145                 150
Ala Ala Gln Ala Asp Met Glu Ser Ser Lys Glu Pro Gly Leu Phe
                155                 160                 165
Asp Val Val Ile Ile Asn Asp Ser Leu Asp Gln Ala Tyr Ala Glu
                170                 175                 180
Leu Lys Glu Ala Leu Ser Glu Val Gly Pro Ser Leu Cys Leu Pro
                185                 190                 195
Gly Gln Gly Pro Arg Gly Gly Leu Gly Ala Arg Pro Leu Leu Ser
                200                 205                 210
Met Arg Pro Leu Arg Lys Ser Arg Lys Leu Lys Gly Pro Ala Pro
                215                 220                 225
Glu Ala Cys Cys Leu Phe Ser Ala Pro Arg Ala His Thr Gly Pro
                230                 235                 240
Gly Gln Gln His
```

<210> 55
<211> 698
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7525215CD1

<400> 55

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Met Glu Leu Trp Asp Val Ser Leu Gln Asp Pro Arg Asp Arg Phe
  1               5                  10                  15
Glu Leu Leu Gln Arg Val Gly Ala Gly Thr Tyr Gly Asp Val Tyr
                20                  25                  30
Lys Ala Arg Asp Thr Val Thr Ser Glu Leu Ala Ala Val Lys Ile
                35                  40                  45
Val Lys Leu Asp Pro Gly Asp Asp Ile Ser Ser Leu Gln Gln Glu
                50                  55                  60
Ile Thr Ile Leu Arg Glu Cys Arg His Pro Asn Val Val Ala Tyr
                65                  70                  75
Ile Gly Ser Tyr Leu Arg Asn Asp Arg Leu Trp Ile Cys Met Glu
                80                  85                  90
Phe Cys Gly Gly Gly Ser Leu Gln Glu Ile Tyr His Ala Thr Gly
                95                 100                 105
Pro Leu Glu Glu Arg Gln Ile Ala Tyr Val Cys Arg Glu Ala Leu
               110                 115                 120
Lys Gly Leu His His Leu His Ser Gln Gly Lys Ile His Arg Asp
               125                 130                 135
Ile Lys Gly Ala Asn Leu Leu Leu Thr Leu Gln Gly Asp Val Lys
               140                 145                 150
Leu Ala Asp Phe Gly Val Ser Gly Glu Leu Thr Ala Ser Val Ala
               155                 160                 165
Lys Arg Arg Ser Phe Ile Gly Thr Pro Tyr Trp Met Ala Pro Glu
               170                 175                 180
Val Ala Ala Val Glu Arg Lys Gly Gly Tyr Asn Glu Leu Cys Asp
               185                 190                 195
Val Trp Ala Pro Gly Ile Thr Ala Ile Glu Leu Gly Glu Leu Gln
               200                 205                 210
Pro Pro Leu Phe His Leu His Pro Met Arg Ala Leu Met Leu Met
               215                 220                 225
Ser Lys Ser Ser Phe Gln Pro Ala Lys Leu Arg Asp Lys Thr Arg
               230                 235                 240
Trp Thr Gln Asn Phe His His Phe Leu Lys Leu Ala Leu Thr Lys
```

```
                245                 250                 255
Asn Pro Lys Lys Arg Pro Thr Ala Glu Lys Leu Leu Gln His Pro
                260                 265                 270
Phe Thr Thr Gln Gln Leu Pro Arg Ala Leu Leu Thr Gln Leu Leu
                275                 280                 285
Asp Lys Ala Ser Asp Pro His Leu Gly Thr Pro Ser Pro Glu Asp
                290                 295                 300
Cys Glu Leu Glu Thr Tyr Asp Met Phe Pro Asp Thr Ile His Ser
                305                 310                 315
Arg Gly Gln His Gly Pro Ala Glu Arg Thr Pro Ser Glu Ile Gln
                320                 325                 330
Phe His Gln Val Lys Phe Gly Ala Pro Arg Arg Lys Glu Thr Asp
                335                 340                 345
Pro Leu Asn Glu Pro Trp Glu Glu Glu Trp Thr Leu Leu Gly Lys
                350                 355                 360
Glu Glu Leu Ser Gly Ser Leu Leu Gln Ser Val Gln Glu Ala Leu
                365                 370                 375
Glu Glu Arg Ser Leu Thr Ile Arg Ser Ala Ser Glu Phe Gln Glu
                380                 385                 390
Leu Asp Ser Pro Asp Asp Thr Met Gly Thr Ile Lys Arg Ala Pro
                395                 400                 405
Phe Leu Gly Pro Leu Pro Thr Asp Pro Pro Ala Glu Glu Pro Leu
                410                 415                 420
Ser Ser Pro Pro Gly Thr Leu Pro Pro Pro Pro Ser Gly Pro Asn
                425                 430                 435
Ser Ser Pro Leu Leu Pro Thr Ala Trp Ala Thr Met Lys Gln Arg
                440                 445                 450
Glu Asp Pro Glu Arg Ser Ser Cys His Gly Leu Pro Pro Thr Pro
                455                 460                 465
Lys Val His Met Gly Ala Cys Phe Ser Lys Val Phe Asn Gly Cys
                470                 475                 480
Pro Leu Arg Ile His Ala Ala Val Thr Trp Ile His Pro Val Thr
                485                 490                 495
Arg Asp Gln Phe Leu Val Val Gly Ala Glu Glu Gly Ile Tyr Thr
                500                 505                 510
Leu Asn Leu His Glu Leu His Glu Asp Thr Leu Glu Lys Leu Ile
                515                 520                 525
Ser His Arg Cys Ser Trp Leu Tyr Cys Val Asn Asn Val Leu Leu
                530                 535                 540
Ser Leu Ser Gly Lys Ser Thr His Ile Trp Ala His Asp Leu Pro
                545                 550                 555
Gly Leu Phe Glu Gln Arg Arg Leu Gln Gln Gln Val Pro Leu Ser
                560                 565                 570
Ile Pro Thr Asn Arg Leu Thr Gln Arg Ile Ile Pro Arg Arg Phe
                575                 580                 585
Ala Leu Ser Thr Lys Ile Pro Asp Thr Lys Gly Cys Leu Gln Cys
                590                 595                 600
Arg Val Val Arg Asn Pro Tyr Thr Gly Ala Thr Phe Leu Leu Ala
                605                 610                 615
Ala Leu Pro Thr Ser Leu Leu Leu Leu Gln Trp Tyr Glu Pro Leu
                620                 625                 630
Gln Lys Phe Leu Leu Leu Lys Val Arg Gly Gly Gly Gly Arg Pro
                635                 640                 645
Arg Ala Pro Ser Glu Leu Trp Gly Glu Lys Trp Arg Pro Glu His
                650                 655                 660
Pro Cys Cys Pro Leu Glu Leu Leu Gln Pro Ser Ala Gln Pro Ser
                665                 670                 675
Trp Asp Ala Gly Ala Ala Gly Ala Gly Trp Glu Gly Ala Ala Ala
                680                 685                 690
Gly Val Cys Trp Gly Arg Gly Ala
                695
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<210> 56

<211> 486
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7525356CD1

<400> 56

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Met Ala Thr Ala Glu Lys Gln Lys His Asp Gly Arg Val Lys Ile
  1               5                  10                  15
Gly His Tyr Ile Leu Gly Asp Thr Leu Gly Val Gly Thr Phe Gly
             20                  25                  30
Lys Val Lys Val Gly Lys His Glu Leu Thr Gly His Lys Val Ala
             35                  40                  45
Val Lys Ile Leu Asn Arg Gln Lys Ile Arg Ser Leu Asp Val Val
             50                  55                  60
Gly Lys Ile Arg Arg Glu Ile Gln Asn Leu Lys Leu Phe Arg His
             65                  70                  75
Pro His Ile Ile Lys Leu Tyr Gln Val Ile Ser Thr Pro Ser Asp
             80                  85                  90
Ile Phe Met Val Met Glu Tyr Val Ser Gly Gly Glu Leu Phe Asp
             95                 100                 105
Tyr Ile Cys Lys Asn Gly Arg Leu Asp Glu Lys Glu Ser Arg Arg
            110                 115                 120
Leu Phe Gln Gln Ile Leu Ser Gly Val Asp Tyr Cys His Arg His
            125                 130                 135
Met Val Val His Arg Asp Leu Lys Pro Glu Asn Val Leu Leu Asp
            140                 145                 150
Ala His Met Asn Ala Lys Ile Ala Asp Phe Gly Leu Ser Asn Met
            155                 160                 165
Met Ser Asp Gly Glu Phe Leu Arg Thr Ser Cys Gly Ser Pro Asn
            170                 175                 180
Tyr Ala Ala Pro Glu Val Ile Ser Gly Arg Leu Tyr Ala Gly Pro
            185                 190                 195
Glu Val Asp Ile Trp Ser Ser Gly Val Ile Leu Tyr Ala Leu Leu
            200                 205                 210
Cys Gly Thr Leu Pro Phe Asp Asp Asp His Val Pro Thr Leu Phe
            215                 220                 225
Lys Lys Ile Cys Asp Gly Ile Phe Tyr Thr Pro Gln Tyr Leu Asn
            230                 235                 240
Pro Ser Val Ile Ser Leu Leu Lys His Met Leu Gln Val Asp Pro
            245                 250                 255
Met Lys Arg Ala Thr Ile Lys Asp Ile Arg Glu His Glu Trp Phe
            260                 265                 270
Lys Gln Asp Leu Pro Lys Tyr Leu Phe Pro Glu Asp Pro Ser Tyr
            275                 280                 285
Ser Ser Thr Met Ile Asp Asp Glu Ala Leu Lys Glu Val Cys Glu
            290                 295                 300
Arg Val Pro Phe Leu Val Ala Glu Thr Pro Arg Ala Arg His Thr
            305                 310                 315
Leu Asp Glu Leu Asn Pro Gln Lys Ser Lys His Gln Gly Val Arg
            320                 325                 330
Lys Ala Lys Trp His Leu Gly Ile Arg Ser Gln Ser Arg Pro Asn
            335                 340                 345
Asp Ile Met Ala Glu Val Cys Arg Ala Ile Lys Gln Leu Asp Tyr
            350                 355                 360
Glu Trp Lys Val Val Asn Pro Tyr Tyr Leu Arg Val Arg Arg Lys
            365                 370                 375
Asn Pro Val Thr Ser Thr Tyr Ser Lys Met Ser Leu Gln Leu Tyr
            380                 385                 390
Gln Val Asp Ser Arg Thr Tyr Leu Leu Asp Phe Arg Ser Ile Asp
            395                 400                 405
```

Asp Glu Ile Thr Glu Ala Lys Ser Gly Thr Ala Thr Pro Gln Arg
410 415 420
Ser Gly Ser Val Ser Asn Tyr Arg Ser Cys Gln Arg Ser Asp Ser
425 430 435
Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu Val Ser Leu Thr Ser
440 445 450
Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp Leu Thr Pro Arg
455 460 465
Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys Ala Asn Leu
470 475 480
Ile Lys Ile Leu Ala Gln
485

<210> 57
<211> 1395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521809CB1

<400> 57
tagctgtgtg gcccggagtg agattcagaa agtccttgat agcttgcagg agcatctgat 60
gaatgatcca gatgttcaag ctcaagttca ggtattatcc gctgcactga gagctgcaca 120
gctcgactgc gtgaatgaag ctgagagcaa gccaacagca ggcctaaagg aagtgtccat 180
ttcacatccc agctctgcct ctgacaatca gatcgctctg gcggcctcat catctcagga 240
tgagctcttt gtggccagga tattacaaag cccagatcca ggtggaccca gaaatggaac 300
cagtgaccat ctggagactg accagaggca ggatcccacc ccacttgaag agaataaatc 360
taaattacag gatgtaatac ctcagccgct gctagatcag tatgtgtcca tgactgaccc 420
agctcgagcc cagactgtcg atactgacat agccaaacac tgtgcctaca gcctcccagg 480
ggtggcactg accctgggca ggcaaaattg gcactgcctg aaagatacat atgaaacact 540
ggcttctgat gtacagtgga aggtacggcg agccctagcc ttctccattc acgagctggc 600
tgtgattctt ggggatcagt taacagcagc tgacctggtg cctatcttca atggattttt 660
aaaggatctg gatgaagtgc gaataggagt tcttagacac ctgtatgatt ttctaaagac 720
agctgatact gattctggaa ctctatagtc ccaatgatgt ttatgattac ctaatgcaca 780
ttgccttaaa gttgtgtgca gatcaagttt ctgaagttcg gtggatctcc ttcaaactag 840
tcgtggcaat tctgcagaag ttctattcca acagtgaaag tgcattgggg ttaaatttca 900
tcaatgagct catcataagg ttccggcact gttctaagtg ggttggaagg caagctttcg 960
ctttcatttg tcagattctg aaatgacttc tttgggatta aagaagtgta tgtttctaga 1020
agactgcgga aaacatcatt tctttggctg tgactttctt ggagcaggca gtggtgagca 1080
aggagtgtgt ccccgtggac cagttcatgg agcacctgct tcccagcctc ctgagcctcg 1140
catcagatcc tgtgcccaac gtgagggttc tgctagccaa ggccctaagg cagatgctgt 1200
tggaaaaggc gtattttaga aatgctggta accctcatct tgaagtcatt gaagagacca 1260
tcttagcatt gcagtcagac cgggaccaag atgtttcctt ttttgcagcc ctagaaccaa 1320
gcggcggaat atcatagaca ctgctgtact agaaaaacag aattaactac ttccgtgatg 1380
agttgcaatc tgata 1395

<210> 58
<211> 1008
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7520259CB1

<400> 58
ccgcgatgca gaaatacgag aaactggaaa agattgggga aggaggcatt tcctggctta 60
gggaagagtg ccgcatcctc accctgaccc ctgacctcct tcccctaggc acctacggaa 120
ctgtgttcaa ggccaaaaac cgggagactc atgagatcgt ggctctgaaa cgggtgaggc 180
tggatgacga tgatgagggt gtgccgagtt ccgccctccg ggagatctgc ctactcaagg 240
agctgaagca caagaacatc gtcaggcttc atgacgtcct gcacagcgac aagaagctga 300

ctttggtttt tgaattctgt gaccaggacc tgaagaagta ttttgacagt tgcaatggtg 360
acctcgatcc tgagattgta aagtcattcc tcttccagct actaaaaggg ctgggattct 420
gtcatagccg caatgtgcta cacagggacc tgaagcccca gaacctgcta ataaacagga 480
atggggagct gaaattggct gattttggcc tggctcgagc ctttgggatt cccgtccgct 540
gttactcagc tgaggtggtc acactgtggt accgcccacc ggatgtcctc tttggggcca 600
agctgtactc cacgtccatc gacatgtggt cagccggctg catctttgca gagctggcca 660
atgctgggcg gcctcttttt cccggcaatg atgtcgatga ccagttgaag aggatcttcc 720
gactgctggg gacgcccacc gaggagcagt ggccctctat gaccaagctg ccagactata 780
agccctatcc gatgtacccg gccacaacat ccctggtgaa cgtcgtgccc aaactcaatg 840
ccacagggag ggatctgctg cagaaccttc tgaagtgtaa ccctgtccag cgtatctcag 900
cagaagaggc cctgcagcac ccctacttct ccgacttctg tccgccctag gccccgggac 960
ccccggcctc caggctgggg cctggcctat ttaagccccc tcttgaga 1008

<210> 59
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7521738CB1

<400> 59
taccgcaggg cccgatcacg ctgggggcgc tgaggccggc catggtcgtg gaagtgggca 60
ccctggacgc tggaggcctg cgggcgctgc tgggggagcg agcggcgcaa tgcctgctgc 120
tggactgccg ctccttcttc gctttcaacg ccggccacat cgccggctct gtcaacgtgc 180
gcttcagcac catcgtgcgg cgccgggcca agggcgccat gggcctggag cacatcgtgc 240
ccaacgccga gctccgcggc cgcctgctgg ccggcgccta ccacgccgtg gtgttgtttg 300
tccactgcca ggcaggcatt tcccggtcag ccaccatctg ccttgcttac cttatgagga 360
ctaatcgagt caagctggac gaggcctttg agtttgtgaa gcagaggcga agcatcatct 420
ctcccaactt cagcttcatg ggccagctgc tgcagtttga gtcccaggtg ctggctccgc 480
actgttcggc agaggctggg agccccgcca tggctgtgct cgaccgaggc acctccacca 540
ccaccgtgtt caacttcccc gtctccatcc ctgtccactc cacgaacagt gcgctgagct 600
accttcagag ccccattacg acctctccca gctgctgaaa ggccacggga ggta 654

<210> 60
<211> 1024
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7522266CB1

<400> 60
tagtgtctgt cgctgctgcc gggtccaccc agcctccgcc atggacctct tcggggacct 60
gccggagccc gagcgctcgc cgcgcccggc tgccgggaaa gaagctcaga aaggaccccct 120
gctctttgat gacctccctc cggccagcag tactgactca ggatcagggg gacctttgct 180
ttttgatgat ctcccacccg ctagcagtgg cgattcaggt tctcttgcca catcaatatc 240
ccagatggta aagactgaag ggaaaggagc aaagagaaaa acctccgagg aagagaagaa 300
tggcagtgaa gagcttgtgg aaaagaaagt ttgtaaagga gatgtaatca gtgtagagaa 360
aaccgtgaag agatgccttt tggacacttt caagcatact gatgaagagt tccttaaaca 420
agcttccagc cagaagcctg cctggaaaga tgggtccact gccacgtgtg ttctggctgt 480
agacaacatt ctttatattg ccaacctcgg agatagtcgg gcaatcttgt gtcgttataa 540
tgaggagagt caaaaacatg cagccttaag cctcagcaaa gagcataatc caactcagta 600
tgaagagcgg atgaggatac agaaggctgg aggaaacgtc agggatgggc gtgttttggg 660
cgtgctagag gtgtcacgct ccattgggga cgggcagtac aagcgctgcg gtgtcacctc 720
tgtgcccgac atcagacgct gccagctgac ccccaatgac aggttcattt tgttggcctg 780
tgatgggctc ttcaaggtct ttaccccaga agaagccgtg aacttcatct tgtcctgtct 840
cgaggatgaa aagatccaga cccgggaagg gaagtccgca gccgacgccc gctacgaagc 900
agcctgcaac aggctggcca acaaggcggt gcagcggggc tcggccgaca acgtcactgt 960
gatggtggtg cggatagggc actgaggggt ggcgcgcggc caggagcacg catggtattg 1020
acta 1024

<210> 61
<211> 952
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523011CB1

<400> 61
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caggatgacg ctggacgtgg ggccggagga tgagctgccc gactgggccg ccgccaaaga 120
gttttaccag aagtacgacc ctaaggacgt catcggcaga ggagtgagct ctgtggtccg 180
ccgttgtgtt catcgagcta ctggccacga gtttgcggtg aagattatgg aagtgacagc 240
tgagcggctg agtcctgagc agctggagga ggtgcgggaa gccacacggc gagagacaca 300
catccttcgc cagtcaccct catcgattcc tacgagtctt ctagcttcat gttcctggtg 360
tttgacctga tgcggaaggg agagctgttt gactatctca cagagaaggt ggccctctct 420
gaaaaggaaa ccaggtccat catgcggtct ctgctggaag cagtgagctt tctccatgcc 480
aacaacattg tgcatcgaga tctgaagccc gagaatattc tcctagatga caatatgcag 540
atccgacttt cagatttcgg gttctcctgc cacttggaac ctggcgagaa gcttcgagag 600
ttgtgtggga ccccagggta tctagcgcca gagatcctta aatgctccat ggatgaaacc 660
cacccaggct atggcaagga ggtcgacctc tggggcctgt ggggtgatct tgttcacact 720
ccttggctag gttcgccacc cttctggcac cgggcggaga tcctgatgtt acgcatgatc 780
catggaggcc cagtaccagt tcagttcccc cgaagtggga tgacccgttc cagcaactgt 840
caaagaactt gatctccagg ctgttgcagg tggatcctga ggcaccgcct gacaggtgac 900
aggcctaaag acccttcttt gagcttggaa gggagcaacc tggacttacc gc 952

<210> 62
<211> 1200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<211> 733
<212> DNA
<213> Homo sapiens

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<211> 1336
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 7521804CB1

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
<213> Homo sapiens

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<211> 1341
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

<220>
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<212> DNA
<213> Homo sapiens

<220>
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<213> Homo sapiens

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<211> 1406
<212> DNA
<213> Homo sapiens

<220>
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<211> 1640
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 7523546CB1

<400> 77

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<211> 1484
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 7523552CB1

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<210> 79
<211> 1675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523564CB1

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 1876
<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
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<220>
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<223> Incyte ID No: 7523757CB1

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